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MONTREAL



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## CALENDAR

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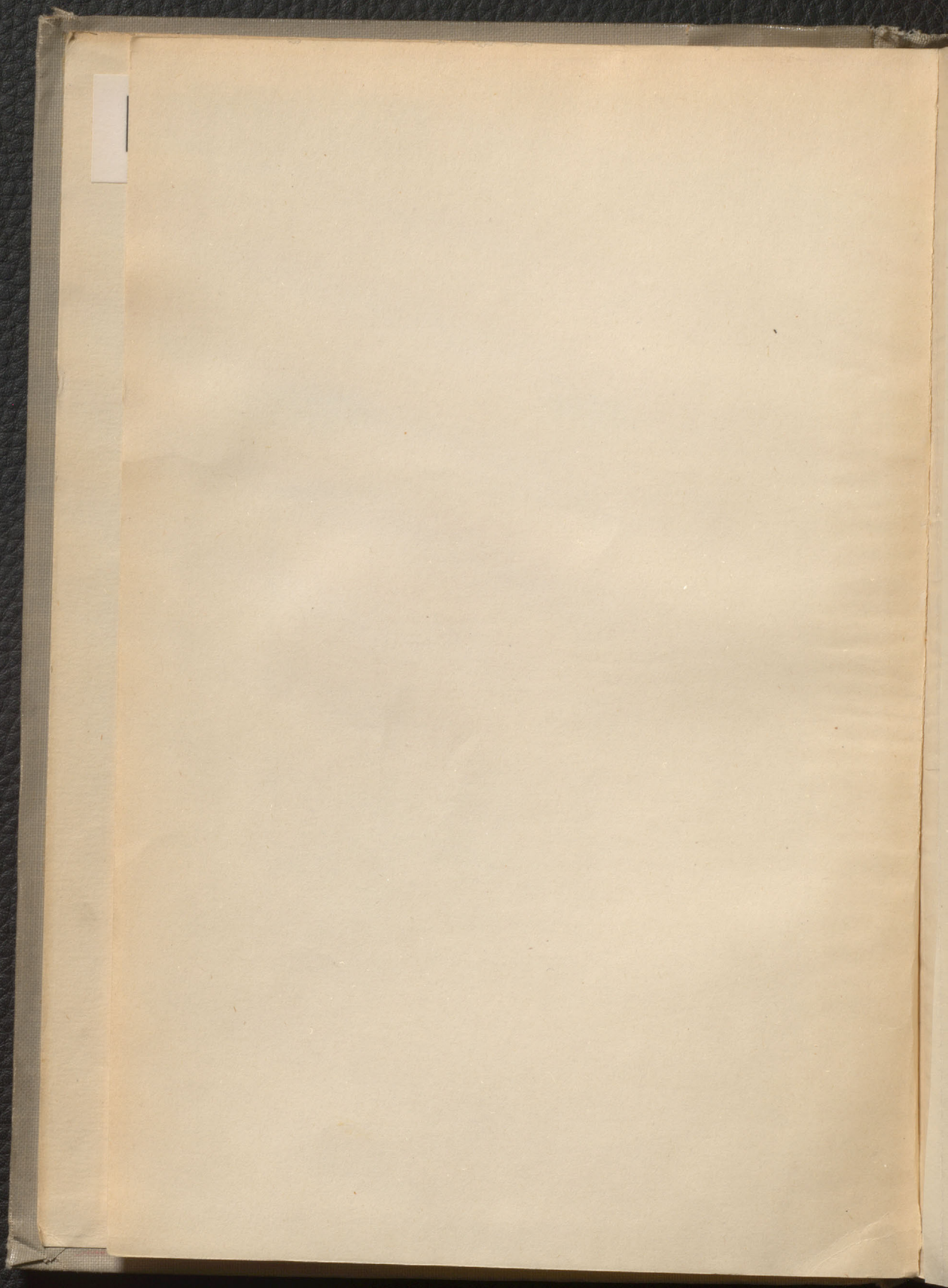


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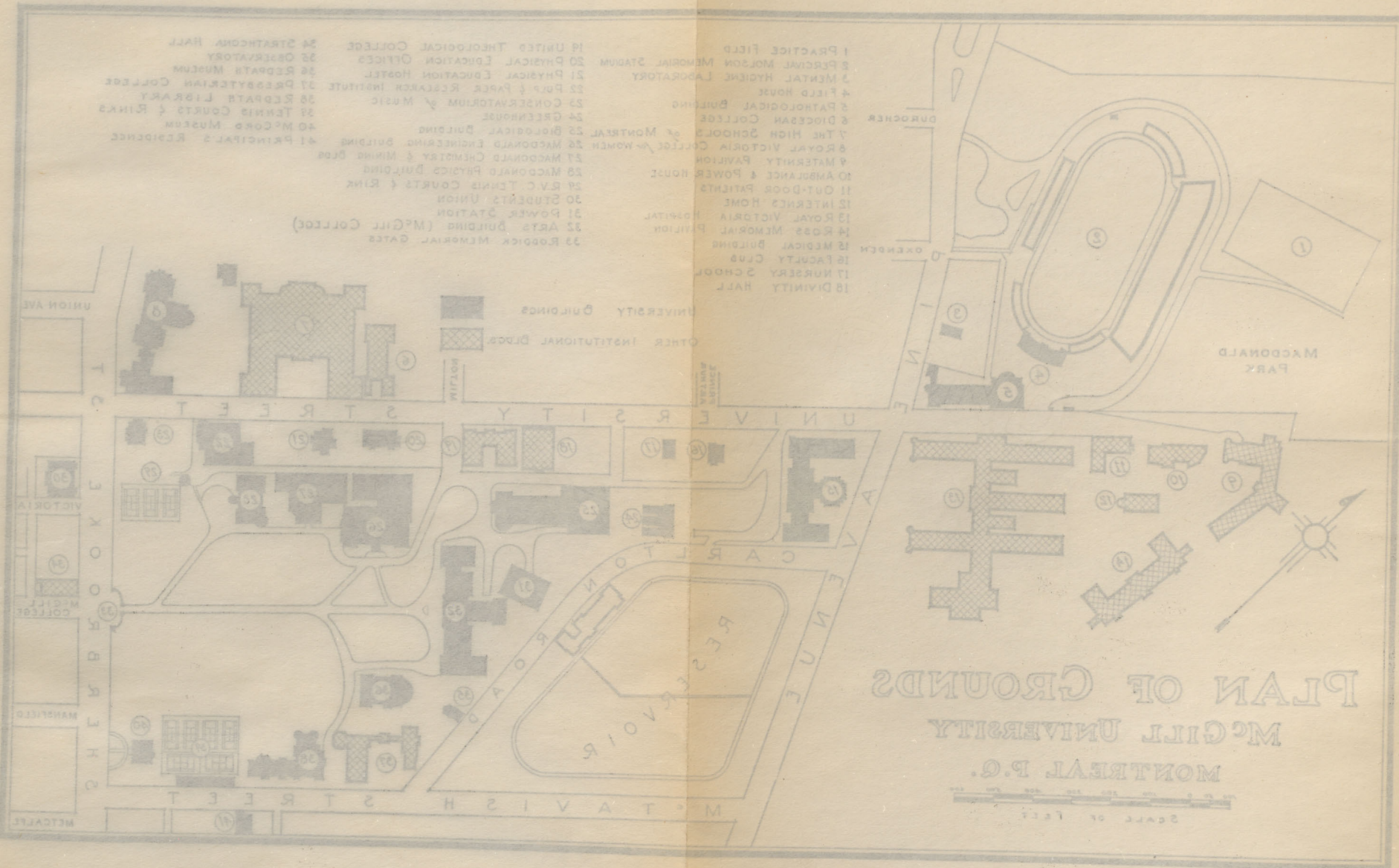
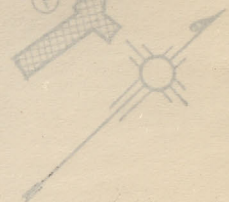






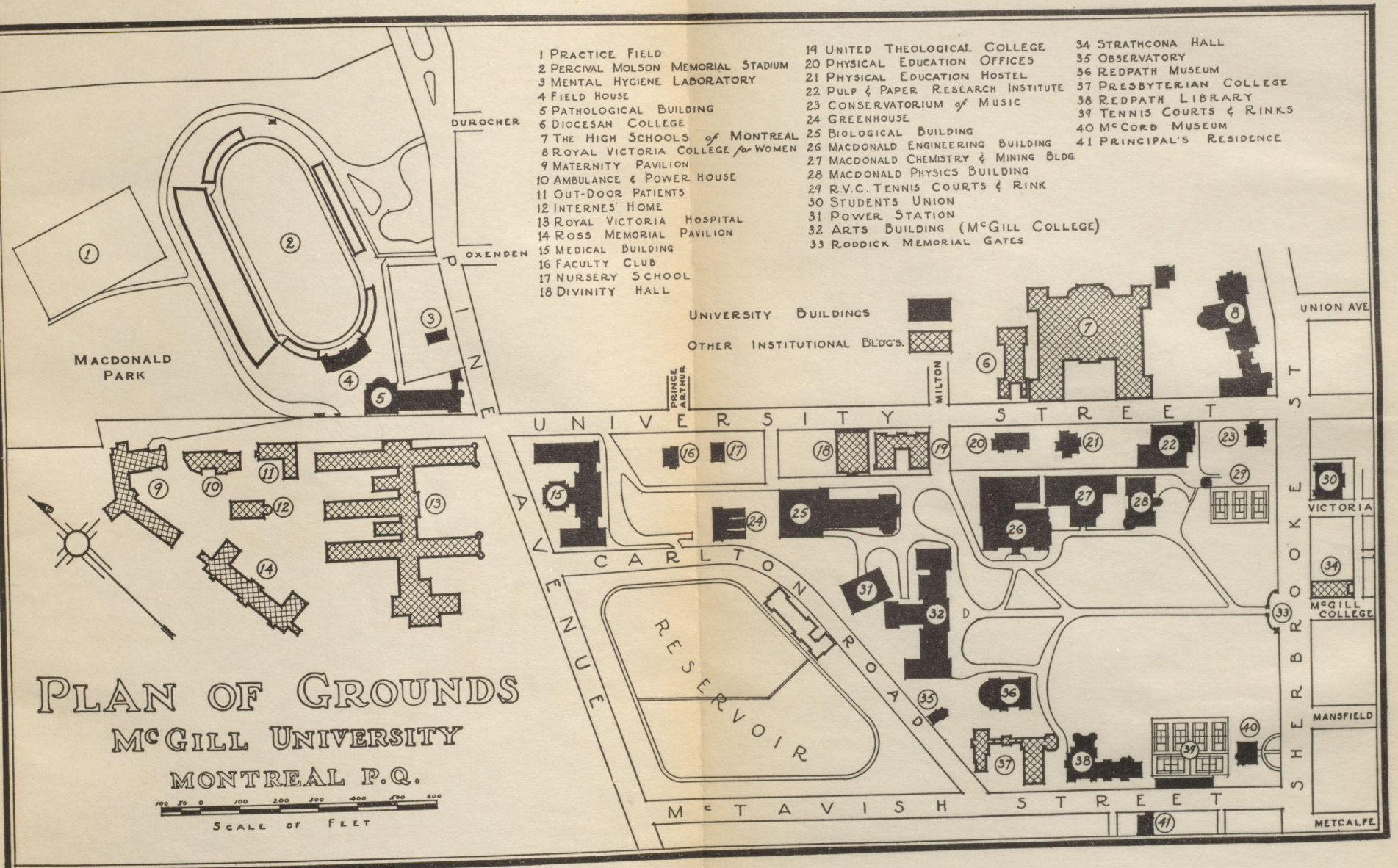
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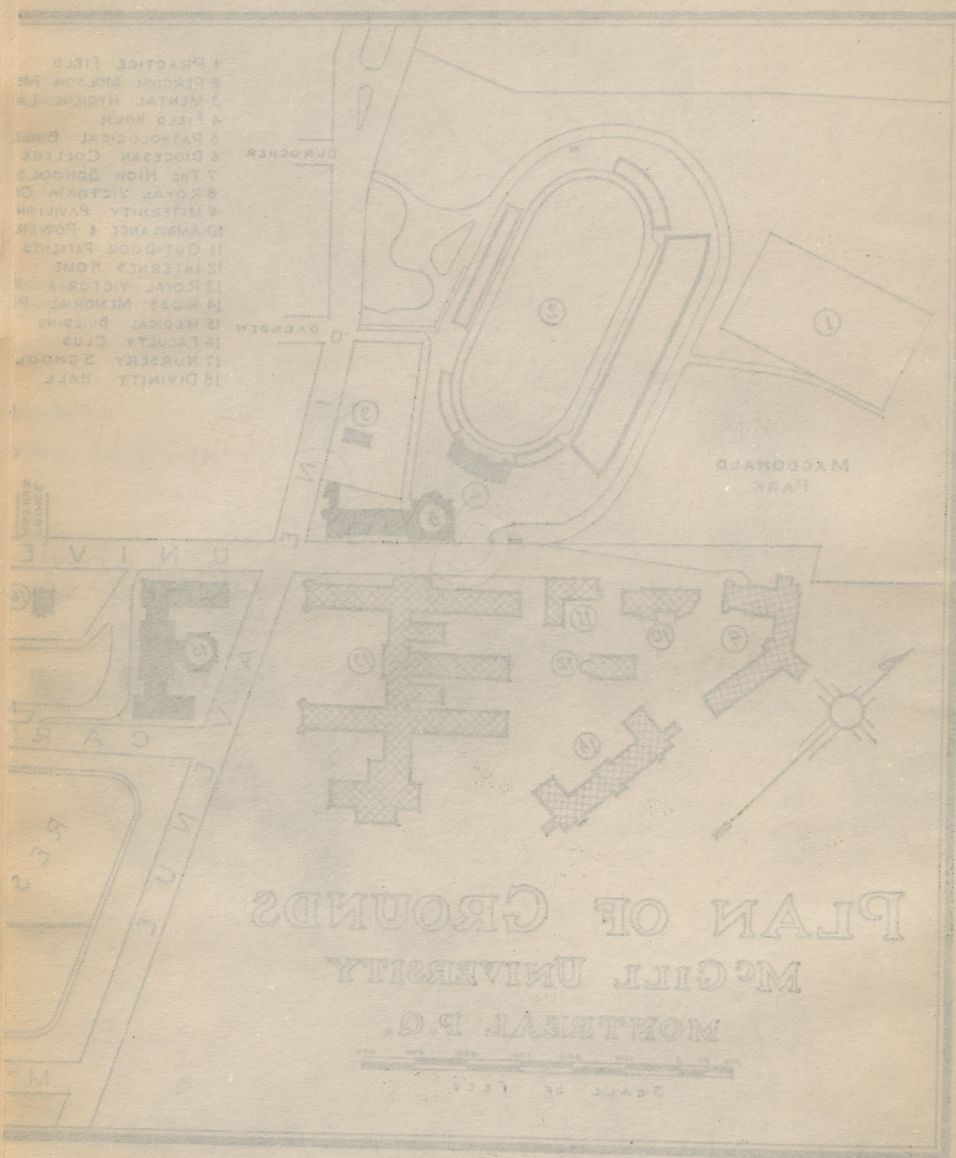


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- 6 DUNCAN COLLEGE
- 7 THE HIGH SCHOOL
- 8 ROYAL VICTORIA COLLEGE FOR WOMEN
- 9 MATERNITY PAVILION
- 10 AMBULANCE & POWER HOUSE
- 11 OUT-DOOR PATIENTS
- 12 INTERNS HOME
- 13 ROYAL VICTORIA HOSPITAL
- 14 ROSS MEMORIAL BUILDING
- 15 MEDICAL BUILDING
- 16 FACULTY CLUB
- 17 NURSERY SCHOOL
- 18 DIVINITY HALL
- 19 UNITED THEOLOGICAL COLLEGE
- 20 PHYSICAL EDUCATION OFFICE
- 21 PHYSICAL EDUCATION HOSTEL
- 22 PAPER RESEARCH INSTITUTE
- 23 CONSERVATORY OF MUSIC
- 24 GREENHOUSE
- 25 BIOLOGICAL BUILDING
- 26 MACDONALD ENGINEERING BUILDING
- 27 MACDONALD CHEMISTRY & MINING BLDG
- 28 MACDONALD PHYSICS BUILDING
- 29 R.V.C. TENNIS COURTS & RINK
- 30 STUDENTS UNION
- 31 POWER STATION
- 32 ARTS BUILDING (MCGILL COLLEGE)
- 33 RODRICK MEMORIAL GATES
- 34 STRATHCONA HALL
- 35 OBSERVATORY
- 36 REPERTORY MUSEUM
- 37 PRESBYTERIAN COLLEGE
- 38 REPERTORY LIBRARY
- 39 TENNIS COURTS & RINKS
- 40 MCGILL MUSEUM
- 41 PRINCIPALS RESIDENCE











# MCGILL UNIVERSITY

## MONTREAL

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FOUNDED UNDER BEQUEST OF THE HON. JAMES MCGILL;  
ESTABLISHED AS A UNIVERSITY BY ROYAL CHARTER  
IN 1821; AND REORGANIZED UNDER AN  
AMENDED CHARTER IN 1852



# CALENDAR

FOR THE SESSION 1931-32

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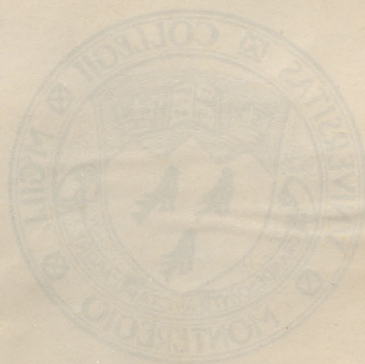
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## INDEX

---

	PAGE
Academic Dress .....	150
Academic Year .....	63
Accountancy, Course in .....	248
Diploma of .....	246
For Matriculation .....	94
Accounting and Auditing .....	260
Administrative Officers .....	21
Admission .....	81
Application for .....	98
To Advanced Standing .....	98
Faculty of Agriculture .....	85
To the Faculty of Arts and Science .....	152
To the Faculty of Engineering .....	84
To the Faculty of Music .....	86, 438
To the School of Commerce .....	84
To Macdonald College .....	85
To the Faculty of Law .....	411
To the Faculty of Dentistry .....	420
To the Study and Practice of Law in Quebec .....	416
To the Faculty of Medicine .....	362
To the Library School .....	595
To the Royal Victoria College .....	235
To the School for Graduate Nurses .....	568
To the School of Physical Education .....	85
To the Study and Practice of Medicine .....	370
Admissions Committee .....	31
Advanced Courses in Arts and Science .....	154
Advanced Standing in Engineering for Graduates in Arts and Science .....	267
Advancement from Year to Year in Arts and Science .....	157
Advisers in Arts and Science .....	101
Affiliated Colleges .....	75
Age of Admission .....	153
Agriculture, Faculty of .....	632
Agronomy, Graduate Courses in .....	481
Algebra for Matriculation .....	90
Courses in (Arts and Science) .....	203
"    " (Engineering) .....	320
Allan (Dr. J. H. B.), Scholarship .....	110
Allan (Margaret Jane) Scholarship .....	110
Alliance Française Medals .....	117

270157



	PAGE
American Society for Steel Treating Prize.....	122
Ami (Dr. H.) Exhibition.....	102
Anatomy.....	168, 372
"    Dental.....	425, 427
"    Graduate Courses in.....	482
Ancient History.....	182
Anglin-Norcross Prize.....	120
Application for Admission.....	98
Applied Mechanics, Courses in.....	306, 497
Approved Lodgings.....	147
Architecture:—	
Course in.....	270
Subject of.....	294
Arts and Science, Faculty of.....	152
Association of Registered Nurses Scholarship.....	571
Athletic Board, University.....	28
Athletics.....	638
Atholstan (Lord) Scholarship.....	106
Attendance, Rules Regarding.....	100
Babcock & Wilcox Scholarship.....	120
Bachelor of Architecture, Courses for.....	270
Bachelor of Arts Degree, Courses for.....	159
Bachelor of Civil Law, Courses for.....	414
Bachelor of Commerce, Courses for.....	242
Bachelor of Engineering, Courses for.....	269
Bachelor of Household Science, Courses for.....	633
Bachelor of Music Degree, Requirements for.....	439
Bachelor of Science Degree, Courses for, in Arts.....	168
Bachelor of Science in Biological Sciences.....	166
Bachelor of Science in Agriculture.....	633, 634
Ballon (Ellen) Scholarship.....	126
Bacteriology:—	
Courses in Arts and Science.....	169
Courses in Dentistry.....	426
Courses in Medicine.....	382
Courses in the Graduate School.....	484
Bar Regulations, Province of Quebec.....	416
Barclay Scholarship.....	109
Baylis Scholarship.....	122
Beatty (Dr. E. W.) Scholarships.....	107
Bedford Graduates' Society's Scholarship.....	103
Bio-Chemistry.....	171, 377
Bio-Chemistry (Graduate Courses in).....	486



# INDEX

v

	PAGE
Biological Sciences, Courses in.....	166
Biology for Matriculation.....	94
Biology, Courses in.....	173
Birks Scholarship.....	110
Board of Governors.....	23
Their Powers.....	74
Board and Residence.....	147
In Royal Victoria College for Women.....	229
Botany:—	
Courses in Arts and Science.....	172
“        the Graduate School.....	487
“        for Matriculation.....	91
British Association Exhibition.....	120
British Association Medal.....	123
Browne (A. A.) Fellowship.....	133
Bruce (Robert) Bursaries and Scholarships.....	105, 109
Buildings.....	403, 648
Bursaries in Engineering.....	119
Business Organization, Course in.....	250
Calendar of Meetings, etc.....	63
Canadian History Research Scholarships.....	133
Canadian Institute of Mining and Metallurgy Prizes and Medal.....	121, 123
Canadian Officers' Training Corps.....	642
Canadian Pacific Railway Company's Scholarship.....	107
Caution Money.....	137
Certificates Accepted for Entrance.....	82, 97
Changing Courses.....	101
Chapman (Henry) Gold Medal.....	116
Chapman (Henry) Prize.....	117
Chemical Engineering, Course in.....	275
Chemical Industry Society's Prize.....	122
Chemistry:—	
For Matriculation.....	91
In the Faculty of Arts and Science.....	174
“        “        Engineering.....	300
“        “        Graduate Studies.....	491
In the School of Commerce.....	251
Subject of.....	174
Cherry Prize.....	118
Children's Memorial Hospital Scholarship.....	571
Chinese Studies.....	178
Christie Storer Chapter Scholarship.....	107
Civil Engineering, Courses in.....	277



	PAGE
Civil Engineering, Graduate Courses in .....	497
"            "            Subject of .....	306
Civil Law .....	417
Civil Procedure .....	417
Class of 1899 Fund .....	123
Classes of Students .....	99
Classics, Undergraduate Courses in .....	179
"            Graduate Courses in .....	499
Clinical Instruction in Dentistry .....	434
College Grounds, Management of .....	638
Colleges (Affiliated) .....	75
Colleges (Incorporated) .....	75
Colwell (Louis) Scholarship .....	135
Commerce, School of .....	242
Commercial Law .....	261, 415
In Commerce .....	254
Committees of Faculties .....	30
Committees of Governors and Corporation .....	26
Comparative Law .....	418
Concurrent Subjects in Engineering .....	342
Conflict of Laws, Course in .....	415
Conservatorium of Music .....	435
"            "            Bursaries .....	126
Constitution of the University .....	69
Constitutional Law .....	418
Converse of Prerequisite Subjects in Engineering .....	346
Cooper (James) Fellowships .....	134
Corporation, The .....	23
Cost of Education .....	147
Courses for B.A. ....	159
For Bachelor of Architecture .....	270
For Bachelor of Commerce .....	242
For B.C.L. ....	414
For B. Eng. ....	269
For B.L.S. ....	600
For B.Sc. in Agriculture .....	633, 634
For B.Sc. in the Biological Sciences .....	166
For Bachelor of Household Science .....	633
For B.Sc. ....	163
For D.D.S. ....	422
For M.D., C.M. ....	365, 369
In the School for Graduate Nurses .....	566
In the Library School .....	600
In the School of Physical Education .....	552
Courses of Lectures in Engineering .....	269



# INDEX

vii

	PAGE
Courses of Lectures in Arts and Science.....	168
“ “ Commerce.....	242
“ “ Dentistry.....	422
“ “ Law.....	414
“ “ Medicine.....	372
“ “ Music.....	439
Criminal Law.....	414
Criminal Procedure.....	414
Crosby Steam Gauge and Valve Company's Prize.....	121
Crowe (Harry J.) Scholarship.....	571
Crown and Bridge Work.....	427
Dates for Session 1931-32.....	63
Dawson (Sir William) Scholarship.....	109, 122
Degrees Granted by the University.....	77
Delta Upsilon Scholarship.....	128
Dental Anatomy.....	427
Dental Council, Dominion.....	421
Dental Faculty.....	419
Dental History, Ethics and Office Management.....	428
Dental Jurisprudence.....	428
Dental Metallurgy.....	429
Dental Pathology.....	431
Dental Surgery.....	428
Dentistry, Faculty of.....	419
Department of Extra-Mural Relations.....	612
Department of Physical Education.....	228, 635
Dermatology.....	389
Descriptive Geometry.....	312
Diocesan College.....	76
Diploma for Graduate Nurses.....	566
Diploma of Licentiate in Accountancy.....	246
Diploma of Licentiate in Music.....	442
Diploma in Physical Education.....	548
Diploma of Public Health.....	401
Diplomas for Teaching.....	187
Directory of Students.....	617
Discipline.....	149
Distinction in General Course in Arts and Science.....	161
Doctor of Civil Law Degrees.....	477
Doctor of Dental Surgery, Course for.....	422
Doctor of Literature Degree.....	477
Doctor of Medicine Degree.....	372
Doctor of Music Degree.....	478



	PAGE
Doctor of Philosophy Degree.....	475
Doctor of Science Degree.....	477
Dominion Dental Council.....	421
Dominion Registration for Medical Students.....	370
Douglas (Dr. James) Bursaries.....	122
Douglas (Dr. James) Fellowship.....	130, 133
Douglas (Dr. James) Studentship.....	131
Drake (Joseph Morley) Prize.....	118
Drawing, Courses in.....	312
Drawing, for Matriculation.....	92
Early English Text Society's Prize.....	117
Economics, Graduate Courses in.....	502
Economics, Undergraduate Courses.....	183, 251, 262
Education, Courses in.....	185, 503
Electrical Engineering, Courses in.....	279
"    "    Graduate Courses in.....	504
"    "    Subject of.....	313
Embryology.....	373
Emeritus Professors.....	33
Engineering, Faculty.....	266
Engineering Courses for First Two Years.....	273
Engineering Institute of Canada Prizes.....	121
Engineering Law.....	316
Engineering Physics, Courses in.....	165, 287
Engineering Reports, Course in.....	316
Engineering Societies.....	267
English:—	
Courses in (Arts and Science).....	189
"    (Graduate).....	505
For Matriculation.....	86
In the School of Commerce.....	252
Entomology, Graduate Courses in.....	508
Entrance Examinations.....	81
<i>See under Junior Matriculation and Senior Matriculation.</i>	
Entrance Requirements.....	81
<i>See under Admission.</i>	
Entrance Scholarships.....	102
Evidence, Course in.....	415
Examinations:—	
For Entrance.....	81
In Engineering.....	267
In Arts and Science.....	155
In Auditing and Accounting.....	263



# INDEX

ix

	PAGE
In Dentistry.....	423
In Law.....	413
In Medicine.....	366
In Music.....	440
Physical.....	98
Exchange Studentships.....	135
Exhibition of 1851 Scholarship.....	128
Exhibitions.....	128
Expenses of Board and Education.....	147
In the Royal Victoria College.....	237
Experimental Medicine, Graduate Courses in.....	511
Extra-Mural Relations, Department of.....	612
Faculties.....	77
Faculty of Arts and Science.....	152
Of Agriculture.....	632
Of Dentistry.....	419
Of Engineering.....	266
Of Graduate Studies and Research.....	467
Of Law.....	411
Of Medicine.....	352
Of Music.....	435
Fees.....	136
General.....	136
In Arts and Science.....	138
In Commerce.....	139
In Dentistry.....	141
In Engineering.....	140
In Graduate Studies.....	145
In Law.....	141
In the Library School.....	597
In Medicine.....	140
In Music.....	143, 466
In the Royal Victoria College.....	237
In the School for Graduate Nurses.....	573
In the School of Physical Education.....	550
Regulations re Payment of.....	137
Fees for Matriculation Examinations.....	136
Fellows of the University.....	23
Fellowships for Graduates.....	132
Field Schools:—	
In Geodesy.....	340
In Metallurgy.....	283
In Mining.....	334
In Surveying.....	340



	PAGES
Fish (Nathan) Scholarship.....	109
Fitch (O. and S.) Prize.....	118
Flinn (John W.) Fellowship.....	134
Forbes (Mildred Hope) Memorial Scholarship.....	571
Foundation of the University.....	69
Of the Faculty of Dentistry.....	419
Of Macdonald College.....	632
Of the Royal Victoria College.....	233
Four Year Course for Students' Accountancy Associations.....	259
French:—	
Courses in (Graduate).....	539
" (Undergraduate).....	220
For Matriculation.....	88
In the School of Commerce.....	253
French Summer School.....	611
Freiman (A. J.) Prize.....	118
Frost (George Henry) Loan Fund.....	123
General Courses for B.A.....	159
General Courses for B.Sc.....	163
General Degrees.....	159
General Fees.....	163
Geodesy.....	338
Geological Sciences, Graduate Courses.....	512
" Undergraduate Courses.....	193, 317
Geometry:—	
Courses in Arts and Science.....	203
Descriptive.....	312
For Matriculation.....	90, 97
Germanic Languages:—	
Courses in Arts and Science.....	197
For Matriculation.....	88, 95
In the Faculty of Graduate Studies.....	516
In the School of Commerce.....	254
Girl Guides.....	547
Government of the University.....	74
Governor-General's Gold Medal.....	116
Governors, Board of.....	23
Gowns.....	150
Grading in Medicine.....	368
Graduate Courses in Medicine.....	401
Graduate Fellowship in Economics.....	130
Graduate Nurses, School for.....	560
Graduate Studies and Research (Faculty of).....	467



# INDEX

xi

	PAGE
Graduates' Society.....	32
Greek:—	
Courses in (Graduate).....	499
"    (Undergraduate).....	179
For Matriculation.....	87, 95
Gynaecology.....	398
Harrington (Dr. B. J.) Research Scholarship.....	130
Health of Students.....	98
Hebrew.....	206
Hersey (Dr. Milton L.) Prize.....	121
High School Diploma.....	187
Hils (Joseph) Prize.....	118
Histology.....	373
Historical Calendar.....	70
Historical Calendar (Faculty of Medicine).....	352
History (Undergraduate Courses).....	200
Ancient.....	182
For Matriculation.....	87
Graduate Courses.....	517
Of the Faculty of Dentistry.....	419
Of the Faculty of Medicine.....	352
Of the Faculty of Music.....	435
Of Macdonald College.....	632
Of the Royal Victoria College.....	233
Of the University.....	69
History of Medicine, Course in.....	392
History of Science, Course in.....	316
Hoare (Walter J.) Scholarship.....	135
Hodgson (Sidney J.) Scholarship.....	103
Holmes Gold Medal.....	118
Honour Courses for B.A.....	157
For B.Sc.....	164
Honour Degrees.....	154
Hoods.....	150
Hospitals.....	404
Household Science.....	633
Houston Scholarship.....	109
Hunt (Dr. T. Sterry) Scholarship.....	129
Hygiene, Courses in.....	383
Incorporated Colleges.....	75
Interchange of Student Teachers.....	135, 480



	PAGE
Interim Tests.....	155
Intermediate Diploma Scholarship.....	104
International Law, Course in.....	417
I.O.D.E. Bursaries.....	103
I.O.D.E. Scholarships.....	132
Italian for Matriculation.....	89
Jackson (Slater) Prize.....	118
Jenkins Brothers' Scholarship.....	120
Jones (Hon. Robert) Scholarship.....	105, 122
Junior Matriculation Examination.....	83
Laboratories.....	658
Latin:—	
Courses in (Graduate).....	500
" Undergraduate).....	180
For Matriculation.....	87, 96
Law (Clara) Fellowship.....	134
Law for Engineers.....	316
Law, Faculty of.....	411
Law in the School of Commerce.....	254
Lecture Time Tables in Commerce.....	265
Legal History, Course in.....	414
Leroy Fellowship.....	129
Library Fees.....	139
Library, Law.....	412
Library, Medical.....	407
Library School.....	595
Library, The University.....	643
License Requirements in Medicine.....	370
Licentiate in Accountancy, Diploma of.....	246
Licentiate in Music, Diploma of.....	442
Lieutenant-Governor's Medals.....	123, 125, 117, 118
Limited Undergraduates.....	99
Lindsay (C.W.) Scholarships.....	126, 135
Loan Funds in Engineering.....	123
Local Centre Examinations in Music.....	459
Local Centres, Music.....	462
Lodgings, Approved.....	147
Lodgings Committee.....	32
Logan Gold Medal.....	116
Lyceum Lectures.....	614
McCall (James Darling) Scholarship.....	108
McCarthy (J. M.) Prizes.....	119



# INDEX

xiii

PAGE

McConnell (J. W.) Scholarship.....	134
Macdonald College.....	632
Macdonald College Alumni Association Scholarship.....	131
Macdonald (W. C. Macdonald, Reg'd) Graduate Scholarships.....	135
Macdonald Memorial Scholarships in Music.....	126
Macdonald (Sir William) Scholarships.....	104
Macdonald (Sir William) Travelling Scholarship in Law.....	124, 131
Macintosh (Annie) Prize.....	117
MacKay (H. M.) Memorial Scholarship.....	119
Mackenzie Scholarships.....	109
Macnaghten (Chester) Prize.....	118
McLennan (Hugh) Memorial Scholarship.....	130
MacRae (Isabella) Scholarship.....	106
McRae (John) Fellowship.....	134
Major and Minor Subjects in the Faculty of Graduate Studies.....	470
Marine Insurance.....	258
Maritime Law.....	417
Martin (Mrs. C. F.) Scholarship.....	135
Master of Arts Degree.....	471
Master of Commerce Degree.....	474
Master of Engineering Degree.....	473
Master of Science Degree.....	472
Materia Medica.....	429
Mathematics Courses:—	
In Arts and Science.....	203
In Engineering.....	320
In the Faculty of Graduate Studies.....	518
In the School of Commerce.....	255, 261
For Junior Matriculation.....	90
For Senior Matriculation.....	97
Matriculation:—	
Junior Matriculation.....	83
Senior Matriculation.....	92
M.D. Degree, Requirements for.....	365
Mechanical Engineering, Courses in.....	281
Graduate Courses in.....	520
Subject of.....	321
Medals in Engineering.....	123
In Arts and Science.....	116
In Commerce.....	125
In Dentistry.....	125
In Gymnastics.....	640
In Law.....	124
In Medicine.....	118
In Music.....	126



	PAGE
In the School of Physical Education.....	551
In the School for Graduate Nurses.....	571
Medical Council Registrars.....	370
Medical Societies.....	409
Medicine, Course in.....	388
Medicine, Faculty of.....	352
Medicine, Members of Faculty since its origin.....	355
Meredith (Mrs. Charles) Scholarship.....	135
Metallurgical Engineering, Courses in.....	283
Graduate Courses in.....	520
Subject of.....	327
Metallurgy (Dental).....	429
Microscopes.....	141
Mid-Sessional Examinations.....	156
Military Training.....	642
Mills (Hiram) Gold Medal.....	116
Mineralogy.....	317
Mining Engineering, Courses in.....	285
Graduate Courses in.....	523
Subject of.....	331
Minor Subjects in the Faculty of Graduate Studies.....	470
Molson (Anne) Gold Medal.....	116
Montreal Bar Association Prize.....	124
Montreal Light, Heat & Power Company's Prize.....	121
Montreal Manufacturers' Fellowship.....	130
Morals, Regulations re.....	149
Morris (Alexander) Exhibition.....	124
Moyse Travelling Scholarships.....	129
Municipal Law.....	415
Murray (Howard) Scholarships.....	109, 126
Mus. Bac. Degree.....	439
Mus. Doc. Degree.....	478
Museums.....	653
Music Examinations.....	440
Music, Faculty of.....	435
Music for Matriculation.....	92
Music Scholarships.....	126
Narcissa Farrand Scholarship.....	103
Neurology.....	393
Neurosurgery.....	393
Notaries.....	418
Nurses, School for Graduate.....	560
Nutting (Charles Albert) Prize.....	124



# INDEX

	xv
	PAGE
Obstetrics.....	397
Officers of Faculty of Medicine since Foundation.....	352
Officers of Instruction.....	35
Officers' Training Corps.....	642
Officials, University.....	21
Oliver (Allen) Fellowship.....	129
Oliver (Allen) Medal.....	117
Operative Dentistry.....	430
Ophthalmology.....	398
Oriental Languages.....	206
Oriental Languages, Graduate Courses in.....	525
Orthodontia.....	431
Orthopedic Surgery.....	394
Osler Library.....	408
Oto-Laryngology.....	399
Ottawa Valley Graduates' Society's Exhibition.....	102
Partial Students.....	99
Paterson (Mrs. R. MacDougall) Scholarship.....	135
Pathological Chemistry.....	377
Pathology.....	378, 431
Pathology, Graduate Courses in.....	526
Pathology, Plant.....	489
Pediatrics.....	389
Penhallow Prize.....	117
Peterson Memorial Prize.....	118
Peterson Memorial Scholarships.....	110, 126
Pharmacology.....	386
"    (Graduate Courses).....	527
Pharmacy, Subject of, in Dentistry.....	432
Ph.D. Degree, Requirements for.....	475
Philosophy (Graduate Course).....	528
"    (Undergraduate Courses).....	207
Physical Education, Department of.....	228, 635
Physical Education, School of.....	545
Physical Examination.....	98
Physical Geography.....	92
Physics:—	
Courses in Arts and Science.....	212
"    Engineering.....	336
"    Commerce.....	256
"    the Graduate Faculty.....	529
For Matriculation.....	91, 97
Physiology.....	219, 374, 432
"    (Graduate Courses).....	535



	PAGE
Pierce (A.) Prize.....	118
Plant Pathology.....	489
Political Science (Undergraduate Courses).....	183, 251
Political Science (Graduate Courses).....	502
Porter (Dr. J. B.) Prize.....	121
Porter (Dr. J. B.) Scholarship.....	134
Pre-Professional Courses in Arts and Science.....	167
Prerequisite Subjects in Engineering.....	341
"          "          Arts and Science.....	162
Presbyterian College.....	76
Presbyterian College Scholarships.....	108
Preventive Medicine.....	383
Prince of Wales Gold Medal.....	116
Privileges for Holders of Degrees in Engineering.....	266
Prizes in Arts and Science.....	117
In Engineering.....	120
In Commerce.....	125
In Dentistry.....	125
In Gymnastics.....	640
In Law.....	124
In the Library School.....	597
In Medicine.....	118
In the School for Graduate Nurses.....	571
In the School of Physical Education.....	551
Probation, Regulations in Arts and Science.....	155
Professional Faculties, Entrance to.....	167
Professors, List of.....	35
In Medicine Since Its Foundation.....	355
Promotion in Arts and Science, Rules.....	157
In Medicine.....	367
Prosthetic Dentistry.....	433
Prosthetic Treatment of Cleft Palate.....	433
Psychiatry.....	389
Psychology, Graduate Courses in.....	536
Psychology, Undergraduate Courses in.....	215, 376
Public Health.....	383
Purvis (A. B.) Scholarship.....	135
Quebec Minister of Agriculture Scholarship.....	131
Quebec Province Scholarships.....	133
Ramsay Memorial Fellowship.....	134
Reciprocity with Great Britain (Medicine).....	371



# INDEX

xvii  
PAGE

Redpath (Jane) Scholarship.....	108
Register of Students.....	671
Registrars of Provincial Dental Councils.....	421
Registrars of Provincial Medical Councils.....	370
Registration (University).....	730
Research Council, Social.....	80
Research Council Scholarships.....	134
Residence in Royal Victoria College.....	370
Resident Study in Graduate Faculty.....	470
Rhodes Scholarship.....	127
Robertson (Louis) Prize.....	121
Roman Law, Course in.....	417
Romance Languages, Undergraduate Courses.....	220
Romance Languages, Graduate Courses in.....	539
Ross (P. S.) Exhibition.....	102
Rowat (Thomas Alexander) Scholarship.....	124
Royal Bank Fellowship in Commerce.....	126
Royal Victoria College for Women.....	233
Royal Victoria College Scholarships.....	105
Royal Victoria Hospital Scholarship.....	571
Scholarships.....	102
Entrance.....	102
Exhibition of 1851.....	128
For Graduates.....	128
General.....	102
In Arts and Science.....	108
In Engineering.....	119
In Commerce.....	125
In Law.....	124
In the Library School.....	597
In Medicine.....	133
In Music.....	126
In the School for Graduate Nurses.....	571
Rhodes.....	127
School of Commerce.....	242
School for Graduate Nurses.....	560
School of Physical Education.....	545
Scott (Barbara) Scholarship.....	108
Scott Exhibition.....	120
Second Year Scholarships in Arts and Science.....	110
Semitic Languages.....	206, 525
Senior Matriculation Examination.....	92
Shakespeare Gold Medal.....	116



	PAGE
Shakespeare Society's Prize.....	117
Sharp Prize in Commerce.....	126
Shaw (Flora Madeline) Memorial Fund.....	571
Shriners' Hospital Scholarship.....	572
Silver (Edith) Scholarship.....	106
Snyder (Charles William) Scholarship.....	108
Societies, Engineering.....	267
Societies, Medical.....	409
Society of Chemical Industry Prize.....	122
Sociology, Course in (Undergraduate).....	224
Sociology, Graduate Courses in.....	540
Social Science Research.....	80
Spanish.....	256
For Matriculation.....	89
Staff.....	35
Stevenson Gold Medal.....	125
Stewart (Alexander D.) Prize.....	118
Stewart (Neil) Prize.....	117
Strathcona Certificate Course.....	640
Strathcona Prizes for Physical Education.....	640
Students, Classes of.....	99
List of.....	671
Student Teachers' Scholarships.....	135
Subjects of Entrance Examinations.....	83
Summer Essays and Reading in Engineering.....	290
Summer Schools:—	
In Engineering.....	289
In French.....	611
In Library Administration.....	608
In Mining.....	334
In Surveying.....	340
Surgery, Courses in.....	393, 511
"    Dental.....	433
Surveying.....	338
Sutherland Gold Medal.....	118
Teacher Training.....	187
Text Books for Matriculation.....	86
Theological Colleges, Affiliated.....	76
Theological College Scholarships.....	107
Theological Studies, Graduate Courses in.....	542
Therapeutics.....	386, 429
Theses, Regulations.....	479
Third Year Scholarships in Arts and Science.....	113



# INDEX

xix

PAGE

Tighe (James) Prize.....	120
Time Tables of Examinations in Engineering.....	349
Time Table of Examinations in Arts and Science.....	239
Time Table of Lectures in Commerce.....	265
Torrance (Elizabeth) Gold Medal.....	124
Trafalgar Scholarship.....	104
Training of Teachers.....	187
Transportation, Course in.....	258
Trigonometry:—	
Courses in Arts and Science.....	203
For Matriculation.....	97
Turner (P. J.) Prize.....	121

Undergraduates Society's Prize in Engineering.....	122
United Theological College.....	76
United Theological College Scholarships.....	107
University Entrance Scholarships.....	105
University Women's Federation Scholarship.....	132
Urology, Course in.....	394

Vaccination.....	98
Victorian Order of Nurses Scholarship.....	572
Vineberg (Hiram N.) Scholarship.....	134

Waddell Loan Fund.....	123
Wicksteed Medals for Physical Education.....	640
Williams (Dr. J. Francis) Scholarship.....	135
Women Students.....	233
Women's Canadian Club of Montreal Scholarship.....	133
Wood Gold Medal.....	118

Zoology:—	
Courses in Arts and Science.....	227
“          the Graduate Faculty.....	543



INDEX

Table (Index) Type	125
Table of Examinations in Engineering	126
Table of Examinations in Arts and Science	127
Table of Examinations in Commerce	128
Table of Examinations in Medicine	129
Table of Examinations in Law	130
Table of Examinations in Music	131
Table of Examinations in Fine Arts	132
Table of Examinations in Agriculture	133
Table of Examinations in Forestry	134
Table of Examinations in Veterinary Medicine	135
Table of Examinations in Pharmacy	136
Table of Examinations in Dentistry	137
Table of Examinations in Optics	138
Table of Examinations in Podiatry	139
Table of Examinations in Nursing	140
Table of Examinations in Health Administration	141
Table of Examinations in Public Health	142
Table of Examinations in Epidemiology	143
Table of Examinations in Biostatistics	144
Table of Examinations in Environmental Health	145
Table of Examinations in Occupational Health	146
Table of Examinations in Toxicology	147
Table of Examinations in Immunology	148
Table of Examinations in Microbiology	149
Table of Examinations in Botany	150
Table of Examinations in Zoology	151
Table of Examinations in Animal Husbandry	152
Table of Examinations in Fisheries	153
Table of Examinations in Aquaculture	154
Table of Examinations in Marine Biology	155
Table of Examinations in Oceanography	156
Table of Examinations in Meteorology	157
Table of Examinations in Climatology	158
Table of Examinations in Atmospheric Science	159
Table of Examinations in Space Science	160
Table of Examinations in Planetary Science	161
Table of Examinations in Astrophysics	162
Table of Examinations in Cosmology	163
Table of Examinations in Particle Physics	164
Table of Examinations in Nuclear Physics	165
Table of Examinations in Solid State Physics	166
Table of Examinations in Optics	167
Table of Examinations in Acoustics	168
Table of Examinations in Electromagnetism	169
Table of Examinations in Thermodynamics	170
Table of Examinations in Statistical Mechanics	171
Table of Examinations in Quantum Mechanics	172
Table of Examinations in Relativity	173
Table of Examinations in Cosmology	174
Table of Examinations in Astrophysics	175
Table of Examinations in Particle Physics	176
Table of Examinations in Nuclear Physics	177
Table of Examinations in Solid State Physics	178
Table of Examinations in Optics	179
Table of Examinations in Acoustics	180
Table of Examinations in Electromagnetism	181
Table of Examinations in Thermodynamics	182
Table of Examinations in Statistical Mechanics	183
Table of Examinations in Quantum Mechanics	184
Table of Examinations in Relativity	185
Table of Examinations in Cosmology	186
Table of Examinations in Astrophysics	187
Table of Examinations in Particle Physics	188
Table of Examinations in Nuclear Physics	189
Table of Examinations in Solid State Physics	190
Table of Examinations in Optics	191
Table of Examinations in Acoustics	192
Table of Examinations in Electromagnetism	193
Table of Examinations in Thermodynamics	194
Table of Examinations in Statistical Mechanics	195
Table of Examinations in Quantum Mechanics	196
Table of Examinations in Relativity	197
Table of Examinations in Cosmology	198
Table of Examinations in Astrophysics	199
Table of Examinations in Particle Physics	200



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## ACADEMIC YEAR, 1931-32

## SEPTEMBER, 1931

1 Tuesday	Summer Schools in Chemical, Metallurgical, and Mechanical Engineering begin.
2 Wednesday	Field Work begins in the Schools for Social Workers and Graduate Nurses.
3 Thursday	
4 Friday	Last day for filing Grad. School Theses for the Autumn Convocation.
5 Saturday	
6 SUNDAY	
7 Monday	Supplemental Examinations in Medicine.
8 Tuesday	Supplemental Examinations in Dentistry.
9 Wednesday	Register opens for Students in Medicine and Dentistry. Autumn Examinations in Medicine.
10 Thursday	
11 Friday	
12 Saturday	
13 SUNDAY	
14 Monday	Matriculation Examination begins. Exhibition, Scholarship and Supplemental Examinations in Arts and Science. Registration of Students in the School of Physical Education. Conservatorium of Music opens. Summer School in Surveying begins.
15 Tuesday	
16 Wednesday	Lectures begin in Medicine and Dentistry.
17 Thursday	Lectures begin in Physical Education.
18 Friday	
19 Saturday	
20 SUNDAY	
21 Monday	Register opens for Students in Law, the School for Social Workers, First Year Engineering and others in Engineering who have no conditions.
22 Tuesday	
23 Wednesday	
24 Thursday	
25 Friday	
26 Saturday	
27 SUNDAY	
28 Monday	Registration of Students in Arts and Science, Engineering and the Library School.
29 Tuesday	Registration of Students in Engineering who have conditions to remove.
30 Wednesday	

## OCTOBER, 1931

1 Thursday	Lectures begin in Arts and Science, Engineering, Law, the Library School, and the Schools for Social Workers and Graduate Nurses.
2 Friday	Meeting of the McCord Museum Committee.
3 Saturday	
4 SUNDAY	
5 Monday	Library Committee Meeting. Register closes in Medicine. Meeting of the Faculty of Engineering.
6 Tuesday	Founder's Day. Convocation for Conferring Degrees.
7 Wednesday	Regular Meeting of Corporation.
8 Thursday	Last day for receiving applications in the Graduate School.
9 Friday	Sports Day. No Lectures.
10 Saturday	Summer Essays in Engineering to be sent in.
11 SUNDAY	
12 Monday	Thanksgiving Day. No Lectures.
13 Tuesday	
14 Wednesday	
15 Thursday	
16 Friday	
17 Saturday	
18 SUNDAY	
19 Monday	
20 Tuesday	
21 Wednesday	Examinations in French and German for Ph.D. students.
22 Thursday	
23 Friday	
24 Saturday	
25 SUNDAY	
26 Monday	
27 Tuesday	
28 Wednesday	
29 Thursday	
30 Friday	
31 Saturday	



## NOVEMBER, 1931

**1 SUNDAY**

2 Monday  
3 Tuesday  
4 Wednesday  
5 Thursday  
6 Friday  
7 Saturday

Meeting of the Faculty of Engineering

Meeting of the McCord Museum Committee.

**8 SUNDAY**

9 Monday  
10 Tuesday  
11 Wednesday  
12 Thursday  
13 Friday  
14 Saturday

**15 SUNDAY**

16 Monday  
17 Tuesday  
18 Wednesday  
19 Thursday  
20 Friday  
21 Saturday

**22 SUNDAY**

23 Monday  
24 Tuesday  
25 Wednesday  
26 Thursday  
27 Friday  
28 Saturday

Autumn term in Medicine ends.  
Winter term in Medicine begins.

**29 SUNDAY**

30 Monday

## DECEMBER, 1931

1 Tuesday  
2 Wednesday  
3 Thursday  
4 Friday  
5 Saturday

Meeting of the McCord Museum Committee.

**6 SUNDAY**

7 Monday  
8 Tuesday  
9 Wednesday  
10 Thursday  
11 Friday  
12 Saturday

Meeting of the Faculty of Engineering

Regular Meeting of Corporation.

**13 SUNDAY**

14 Monday  
15 Tuesday  
16 Wednesday  
17 Thursday  
18 Friday  
19 Saturday

Last day of lectures before Christmas.

**20 SUNDAY**

21 Monday  
22 Tuesday  
23 Wednesday  
24 Thursday  
25 Friday  
26 Saturday

Christmas Day.

**27 SUNDAY**

28 Monday  
29 Tuesday  
30 Wednesday  
31 Thursday



JANUARY, 1932

1 Friday	New Year's Day.
2 Saturday	
3 SUNDAY	
4 Monday	Lectures resumed in all Faculties. Meeting of the Faculty of Engineering.
5 Tuesday	
6 Wednesday	Library Committee Meeting.
7 Thursday	
8 Friday	First term in Dentistry ends. Meeting of the McCord Museum Committee.
9 Saturday	
10 SUNDAY	
11 Monday	Examinations begin in Arts and Science, Engineering and the Library School.
12 Tuesday	
13 Wednesday	
14 Thursday	
15 Friday	Second Term opens in Arts and Science, Engineering, Law, the Library School and the School for Social Workers.
16 Saturday	
17 SUNDAY	
18 Monday	
19 Tuesday	
20 Wednesday	
21 Thursday	
22 Friday	
23 Saturday	
24 SUNDAY	
25 Monday	
26 Tuesday	
27 Wednesday	
28 Thursday	
29 Friday	
30 Saturday	
31 SUNDAY	

FEBRUARY, 1932

1 Monday	Meeting of the Faculty of Engineering.
2 Tuesday	
3 Wednesday	Meeting of the McCord Museum Committee.
4 Thursday	
5 Friday	
6 Saturday	
7 SUNDAY	
8 Monday	Founder's Day, Macdonald College.
9 Tuesday	
10 Wednesday	Regular Meeting of Corporation. Ash Wednesday. No lectures.
11 Thursday	
12 Friday	Students, Recital in Conservatorium of Music.
13 Saturday	
14 SUNDAY	
15 Monday	Winter Term in Medicine ends.
16 Tuesday	
17 Wednesday	Examinations in Medicine for First and Second Years. Spring term for Third, Fourth and Fifth Year begins.
18 Thursday	
19 Friday	
20 Saturday	
21 SUNDAY	
22 Monday	
23 Tuesday	
24 Wednesday	
25 Thursday	
26 Friday	
27 Saturday	
28 SUNDAY	
29 Monday	Library School's visit to New York.



## MARCH, 1932

1 Tuesday	
2 Wednesday	
3 Thursday	Meeting of the McCord Museum Committee.
4 Friday	
5 Saturday	
6 SUNDAY	
7 Monday	Meeting of the Faculty of Engineering.
8 Tuesday	
9 Wednesday	
10 Thursday	Second Students' Recital in Music.
11 Friday	
12 Saturday	
13 SUNDAY	
14 Monday	
15 Tuesday	
16 Wednesday	
17 Thursday	
18 Friday	
19 Saturday	
20 SUNDAY	
21 Monday	
22 Tuesday	
23 Wednesday	
24 Thursday	
25 Friday	Good Friday—No lectures.
26 Saturday	No lectures.
27 SUNDAY	Easter Day
28 Monday	No lectures
29 Tuesday	
30 Wednesday	
31 Thursday	

## APRIL, 1932

1 Friday	
2 Saturday	
3 SUNDAY	
4 Monday	Meeting of the Faculty of Engineering.
5 Tuesday	Library Committee Meeting.
6 Wednesday	
7 Thursday	Meeting of the McCord Museum Committee.
8 Friday	
9 Saturday	Second term lectures end in Architecture and the first three years Engineering.
10 SUNDAY	
11 Monday	
12 Tuesday	
13 Wednesday	Regular meeting of Corporation.
14 Thursday	Sessional Examinations begin in Architecture and the first three years Engineering.
15 Friday	
16 Saturday	
17 SUNDAY	
18 Monday	
19 Tuesday	
20 Wednesday	
21 Thursday	Third Students' Recital in Music.
22 Friday	Lectures end.
23 Saturday	
24 SUNDAY	
25 Monday	Last day for filing Ph. D. Theses. Examinations Fourth Year Engineering.
26 Tuesday	
27 Wednesday	Spring term ends for Third, Fourth and Fifth Years in Medicine. Examinations begin in all Faculties.
28 Thursday	
29 Friday	Last day for filing Theses for Masters' degrees. Examinations in Theory of Music at local centres.
30 Saturday	



## MAY, 1932

1 SUNDAY	
2 Monday	Meeting of the Faculty of Engineering
3 Tuesday	
4 Wednesday	Spring term ends in Medicine for First and Second Years.
5 Thursday	Meeting of the McCord Museum Committee.
6 Friday	
7 Saturday	
8 SUNDAY	
9 Monday	Practical Examinations in Music begin.
10 Tuesday	
11 Wednesday	
12 Thursday	
13 Friday	Last day for filing M.Sc. and M. Eng. Theses involving experimental work.
14 Saturday	Last day of Lectures in Music. Session closes for First year students in Physical Education.
15 SUNDAY	
16 Monday	
17 Tuesday	
18 Wednesday	
19 Thursday	
20 Friday	
21 Saturday	
22 SUNDAY	
23 Monday	Preliminary Examinations for Ph. D. degree.
24 Tuesday	Victoria Day
25 Wednesday	Little Convocation for Conferring Diplomas.
26 Thursday	Convocation for Conferring Degrees.
27 Friday	
28 Saturday	
29 SUNDAY	
30 Monday	
31 Tuesday	

## JUNE, 1932

1 Wednesday	
2 Thursday	King's birthday.
3 Friday	
4 Saturday	
5 SUNDAY	
6 Monday	
7 Tuesday	
8 Wednesday	
9 Thursday	
10 Friday	
11 Saturday	Conservatorium closes.
12 SUNDAY	
13 Monday	
14 Tuesday	
15 Wednesday	
16 Thursday	Matriculation Examination begins
17 Friday	
18 Saturday	
19 SUNDAY	
20 Monday	
21 Tuesday	
22 Wednesday	
23 Thursday	
24 Friday	
25 Saturday	
26 SUNDAY	
27 Monday	
28 Tuesday	
29 Wednesday	
30 Thursday	



## JULY, 1932

1 Friday  
2 Saturday  
3 SUNDAY  
4 Monday  
5 Tuesday  
6 Wednesday  
7 Thursday  
8 Friday  
9 Saturday  
10 SUNDAY  
11 Monday  
12 Tuesday  
13 Wednesday  
14 Thursday  
15 Friday  
16 Saturday  
17 SUNDAY  
18 Monday  
19 Tuesday  
20 Wednesday  
21 Thursday  
22 Friday  
23 Saturday  
24 SUNDAY  
25 Monday  
26 Tuesday  
27 Wednesday  
28 Thursday  
29 Friday  
30 Saturday  
31 SUNDAY

Dominion Day

## AUGUST, 1932

1 Monday  
2 Tuesday  
3 Wednesday  
4 Thursday  
5 Friday  
6 Saturday  
7 SUNDAY  
8 Monday  
9 Tuesday  
10 Wednesday  
11 Thursday  
12 Friday  
13 Saturday  
14 SUNDAY  
15 Monday  
16 Tuesday  
17 Wednesday  
18 Thursday  
19 Friday  
20 Saturday  
21 SUNDAY  
22 Monday  
23 Tuesday  
24 Wednesday  
25 Thursday  
26 Friday  
27 Saturday  
28 SUNDAY  
29 Monday  
30 Tuesday  
31 Wednesday



## McGill University

### HISTORY AND CONSTITUTION

#### FOUNDATION AND HISTORY

McGill University owes its origin to a private endowment. It was founded by the Hon. James McGill, a leading merchant and public-spirited citizen of Montreal, who died in 1813. By his will, dated January 8th, 1811, he bequeathed his property of Burnside (consisting of 46 acres of land with the dwelling-house and other buildings thereon) and a sum of £10,000 in money to found a college in a provincial university, the erection of which had already been provided for by the British Government. The four trustees appointed under his will were directed to convey the property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of free schools and the advancement of learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that the Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "a University or College for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges in the University if established, should "be named and perpetually known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of government education and to the refusal of the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned.

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate, but, owing to protracted litigation, this was not surrendered to them till 1829, when the work of teaching was begun in two faculties, Arts and Medicine. The record of the first thirty years of the University's existence is an unbroken tale of financial embarrassment and administrative difficulties. The charter was cumbrous and unwieldy, and unsuited for a small college in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of Montreal awoke to the value of the institution which was struggling



in their midst. Several gentlemen undertook the responsibility of its reorganization and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

## HISTORICAL CALENDAR

October	6, 1744	James McGill born.
January	8, 1811	Date of Will of Hon. James McGill, bequeathing to certain persons, for transfer to the Royal Institution for the Advancement of Learning, his Burnside property of 46 acres and £10,000 in money, for the founding of McGill College.
December	19, 1813	James McGill died.
March	31, 1821	Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College.
May	1, 1822	Montreal General Hospital opened for patients.
January	29, 1823	Charter granted to the Montreal General Hospital.
October	28, 1824	Lectures begun in the Montreal Medical Institution.
January	29, 1829	Venerable Archdeacon Mountain appointed Principal. Teaching begun in two Faculties, Arts and Medicine.
June	28, 1829	The Montreal Medical Institution became the Medical Faculty of McGill University.
April	1834	Principal Mountain resigned.
April	22, 1834	Rev. T. T. Uxford appointed Principal.
July	13, 1835	Principal Uxford resigned.
November	18, 1835	Rev. John Bethune appointed Principal, pro tem.
July	12, 1843	Rev. John Bethune appointed Principal.
July	7, 1846	Principal Bethune resigned.
July	7, 1846	Mr. Edward Allen Meredith appointed Principal.
	1848	Course in Law begun in the Faculty of Arts.
	1852	Amended Charter obtained.
February	1, 1853	Principal Meredith resigned.
February	1, 1853	Hon. Mr. Justice C. D. Day appointed Principal, pro tem.
	1853	Faculty of Law established.
September	8, 1855	Principal Day resigned.
September	8, 1855	Sir William Dawson appointed Principal.
	1856	Course in Engineering begun in the Faculty of Arts.



- October 10, 1862 William Molson Hall opened.  
 1863 Observatory opened.  
 1864 Congregational College of Canada opened in Montreal and affiliated to McGill University. (This College had been founded in Dundas, Ontario, in 1839.)  
 1865 Montreal Presbyterian College founded. (Work begun in the Lecture Hall of Erskine Church, corner of St. Catherine and Windsor Streets.)  
 1870 Courses of lectures by McGill Professors established for women.  
 1871 Engineering Course amplified into the Department of Practical Science in the Faculty of Arts.  
 1872 Work of the Faculty of Medicine transferred from their downtown quarters to the McGill Campus.  
 1873 Diocesan College founded.  
 1873 First Montreal Presbyterian College Building erected.  
 1875 Wesleyan Theological College opened.  
 1878 Faculty of Applied Science organized.  
 1879 Wesleyan Theological College affiliated to McGill University.  
 1880 Diocesan College affiliated to McGill University.
- August 16, 1882 Peter Redpath Museum opened.  
 1882 Presbyterian College enlarged by the erection of the David Morrice Hall.  
 1883 Old Wesleyan Theological College erected.  
 1884 Congregational College Buildings on McTavish St. opened.  
 (From 1864 to 1884 the work of the College had been carried on first in Zion Church and afterwards in Emmanuel Church.)  
 1884 Women admitted to courses in Arts leading to degrees, under the Donalda endowment.
- February 24, 1893 Macdonald Physics and Engineering Buildings opened.
- July 31, 1893 Sir William Dawson resigned the Principalship.
- October 31, 1893 Redpath Library opened.  
 1894 Observatory enlarged.  
 1894 Royal Victoria Hospital opened.
- August 7, 1895 Sir William Peterson appointed Principal.  
 1895 A tract of about 35 acres, comprising the top of Westmount Mountain, purchased and donated to the University by Sir William Macdonald.



- 1896 Present Montreal Diocesan College Buildings opened.
- 1896 Department of Architecture established.
- December 20, 1898 Macdonald Chemistry and Mining Building opened.
- September 4, 1899 Royal Victoria College for women opened.
- November 18, 1899 Sir William Dawson died.
- September 18, 1901 Strathcona Medical Building opened.
- 1903 Dental Department opened in connection with the Faculty of Medicine.
- October 14, 1904 Conservatorium of Music opened.
- 1905 Strathcona Hall opened. (This is the home of the Students' Christian Association of McGill University.)
- 1905 The Medical Faculty of Bishop's College amalgamated with McGill.
- 1906 McGill Union (the students' social centre) opened.
- 1906 Department of Commerce established under the Faculty of Arts.
- April 5, 1907 Macdonald Engineering Building burned.
- " 16, 1907 Medical Building burned.
- " 24, 1907 Faculty of Agriculture established.
- November 5, 1907 Macdonald College opened.
- April 27, 1909 New Engineering Building opened.
- 1909 Power Plant erected.
- 1909 Joseph property, at the south-west corner of the McGill Campus, purchased and donated to the University by Sir William Macdonald.
- June 5, 1911 New Medical Building opened.
- July 4, 1911 Gift of Frothingham, Molson and Law properties (25 acres) from Sir William Macdonald.
- November 20-24, 1911 \$1,500,000.00 raised chiefly from the citizens of Montreal as a general endowment for the University.
- 1912 Montreal Co-operating Theological Colleges established. (This was a union of the Congregational, Diocesan, Presbyterian and Wesleyan Colleges for a certain number of lecture courses.)
- 1912 McGill School of Physical Education established.
- 1913 New Wesleyan Theological College opened.
- 1915 McGill Stadium completed. (This was erected on Macdonald Park, which was donated to the University by Sir William Macdonald in 1911.)



- 1917 Montreal College of Pharmacy incorporated with McGill University as the Department of Pharmacy of the Faculty of Medicine.
- February 25, 1918 Gift of \$1,000,000 from the Carnegie Corporation of New York "in recognition of the noble and devoted service and sacrifice of McGill towards Canada's part in the Great War."
- May 1, 1918 Sir William Peterson resigned the Principalship on account of ill-health.
- 1918 Department of Social Science established.
- October 25, 1919 Name of the McGill Stadium changed to "The Percival Molson Stadium" and formally dedicated to the memory of the late Percival Molson, who was killed in the Great War and who bequeathed \$75,000 for its erection.
- 1919 Faculty of Dentistry established.
- 1920 Faculty of Music established.
- 1920 School for Graduate Nurses established.
- August 1, 1920 Sir Arthur Currie appointed Principal.
- November 15-20, 1920 Over \$4,000,000 subscribed by citizens of Montreal and graduates for the funds of the University; and \$1,000,000 granted for the same purpose by the Government of the Province of Quebec, and \$1,000,000 by the Rockefeller Foundation of New York for medical education.
- January 4, 1921 Sir William Peterson died.
- October 11, 1922 Faculty of Graduate Studies and Research established.
- October 26, 1922 Biological Building opened.
- June 5, 1924 Gift of \$500,000 from the Rockefeller Foundation for the purpose of establishing a medical clinic.
- October 6, 1924 Pathological Institute opened.
- May 28, 1925 Roddick Memorial Gates opened.
- 1926 Opening of the Royal Victoria-Montreal Maternity Pavilion.
- October 6, 1926 Opening of the reconstructed Arts Building (McGill College).
- January 25, 1929 Opening of the Pulp and Paper Building.
- September 1931 Opening of new wing of Royal Victoria College.



## GOVERNMENT OF THE UNIVERSITY

By the Charter "the Governors, Principal, and Fellows" of the University are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority, however, is vested in the Crown, and is exercised by his Excellency the Governor-General of Canada, for the time being, as **Visitor**. This is a special and important feature of the constitution, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to twenty-five. Three of these are elected by the members of the Graduates' Society and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is ex-officio Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member ex-officio). He also holds the office of Vice-Chancellor of the University.

The **Fellows** (49 in number) are selected with reference to the representation of all the faculties and departments of the University, and of the graduates, affiliated colleges, and other bodies.

The Governors, Principal and Fellows together constitute the **Corporation**, the highest academical body. Its powers are fixed by statute and include the framing of all regulations touching courses of study, matriculation, graduation, discipline and the granting of degrees.

The carrying out of the regulations of Corporation, along with primary responsibility for the conduct of the educational work of the University, is entrusted to the several Faculties.



## INCORPORATED AND AFFILIATED COLLEGES

### INCORPORATED COLLEGES

**Macdonald College** is situated at Ste. Anne de Bellevue, about twenty miles from Montreal. It consists of three departments:—The School of Agriculture, the School of Household Science, and the School for Teachers. Courses leading to the Bachelor's and Master's degrees in Agriculture are under the control of the Corporation of McGill University; all the short term courses in agriculture, as well as the course in domestic science, are under the direction of the Executive Committee of Macdonald College, and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. Full information is given in the Macdonald College Announcement, which will be sent on application to the Registrar, Macdonald College, Que.

**The Royal Victoria College** is the women's College of McGill University for courses in the Faculty of Arts and Science. For further particulars, see pages 233 to 238.

### AFFILIATED COLLEGES

**Acadia, Alberta and Mount Allison Universities and the University of St. Francis Xavier College** are affiliated to McGill University to the extent that students who have completed the two-year course in engineering given by these universities are admitted directly to the Third Year in any of the engineering courses in the Faculty of Engineering.

Students from these universities entering the Third Year must take the summer school suitable to their course, in May, or the special school in September, which will open in 1931 on September 1st, in Chemical, Mechanical and Metallurgical Engineering and on September 14th in Civil and Mining Engineering.

**Royal Military College.**—Graduates of the Royal Military College of Kingston, when specially recommended by the Director of Studies of that Institution, are admitted to the Fourth Year in the Civil Engineering Course and to the Third Year in the other engineering departments of the Faculty of Engineering. They must in all cases take the respective summer schools pertaining to these several courses, which are held in September, as per the preceding paragraph.

Arrangements have also been made whereby graduates and students of the Mechanical Science course in the University of Cambridge will be admitted to advanced standing in the Faculty of Engineering under definite regulations, particulars of which can be obtained from the Dean of the Faculty.



## AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions, who are pursuing a double course in Arts and Theology (six years at least) will be exempted from a half course in Arts in each of the Third and Fourth Years or a whole course in either.

**The United Theological College of Montreal.**—Principal, Rev. James Smyth, B.A., D.D., LL.D., 3506 University St.

**The Diocesan College of Montreal.**—Principal, Rev. G. Abbott-Smith, M.A., D.D., D.C.L., 3473 University St.

**The Presbyterian College, Montreal.**—Principal, Rev. F. Scott Mackenzie, M.A., Th.D., D.D., 3485 McTavish St.

For Calendars and all necessary information, apply to the Principals of the several Colleges.

## AFFILIATION TO OTHER UNIVERSITIES

The University is affiliated to the universities of Oxford, Cambridge and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the Second Year sessional examination in Arts and Science to pursue his studies and take his degree at any of these universities on a reduced period of residence.



## FACULTIES, DEGREES, AND DIPLOMAS

## A BRIEF OUTLINE WITH REFERENCES

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University buildings in Montreal; and also in Macdonald College at Ste. Anne de Bellevue, twenty miles from Montreal.

## MCGILL COLLEGE

(Pages 152 to 241.)

*Degrees offered:* Bachelor of Arts (B.A.) (pp. 159 to 162).

Bachelor of Science (B.Sc.) (pp. 163 to 165).

Bachelor of Commerce (B.Com.) (pp. 242 to 245).

*Period of Study in the Faculty for a Degree:* Four years from Junior Matriculation.

*Entrance Qualifications:* Junior or Senior Matriculation (pp. 81 and 92).

*Yearly Fee:* See pp. 136 to 139.

## THE FACULTY OF MEDICINE

(Pages 361 to 411.)

*Degrees offered:* Doctor of Medicine and Master of Surgery (M.D., C.M.) (see pp. 365 to 371).

*Diploma offered:* The Diploma in Public Health (D.P.H.), (see pp. 401-402).

*Period of Study in the Faculty for the Degree:* Five years.

*Entrance Qualifications:* (See pp. 361-362.)

*Yearly Fee in Medicine* .....\$250.00

## THE FACULTY OF LAW

(Pages 411 to 418.)

The course in the Faculty of Law is based mainly on the study of the Roman and Civil systems, the curriculum and timetable being arranged on the assumption that a student is devoting his entire time to his university work.

*Degree offered:* Bachelor of Civil Law (B.C.L.).

*Period of Study in the Faculty of Law:* Three years.

*Entrance Qualifications:* At least two years in a recognized Arts Faculty.

*Yearly Fee in Law*.....\$205.00



## THE FACULTY OF ENGINEERING

(Pages 266 to 351.)

(Men Only)

*Degrees offered:* Bachelor of Architecture (B.Arch.). See below. Bachelor of Engineering (B.Eng.), in the Departments of Chemical, Civil, Electrical, Mechanical, Metallurgical and Mining Engineering.

*Period of Study in the Faculty:* Four years.

*Entrance Qualifications:* Senior Matriculation or First Year Arts and Science covering English, Mathematics, Physics, and any two of: Chemistry, History, French, German, Latin, Greek, Spanish (p. 93).

(In 1932 Chemistry will be compulsory.)

*Yearly Fee* .....\$205.00

## THE SCHOOL OF ARCHITECTURE

(Pages 270 to 272.)

(in the Faculty of Engineering)

(Men Only)

*Degree offered:* Bachelor of Architecture (B.Arch.).

*Period of Study in the School:* Five years.

*Entrance Qualifications:* Junior Matriculation with Intermediate Mathematics. Students must also satisfy the Head of the School that they have drawing ability. (Pages 84, 85.)

*Yearly Fee* .....\$205.00

## THE FACULTY OF DENTISTRY

(Pages 419 to 434.)

*Degree offered:* Doctor of Dental Surgery (D.D.S.).

*Period of Study in the Faculty:* Four years.

*Entrance Qualifications:* At least two years in Arts and Science, including two years of lectures and laboratory work in Chemistry (inorganic and organic), and one year each of Physics and Biology. (Pages 420, 421.)

To be qualified to practise in the Province of Quebec, a student must take this pre-dental work in a recognized English university in that Province.

*Yearly Fee* .....\$210.00

## FACULTY OF AGRICULTURE

This faculty is housed in Macdonald College at Ste. Anne de Bellevue, twenty miles from Montreal.

*Degrees offered:* Bachelor of Science in Agriculture (B.S.A.). Bachelor of Science in Agriculture (B.Sc. in Agr.).



The first degree implies four years at Macdonald College. The second implies two years of study in the Faculty of Arts and Science and then two years of study at Macdonald College.

If a student wishes eventually to teach, the first two years must comply with the regulations stated on page 187. Otherwise the student may take the first two years of the work towards the general B.Sc. degree.

For entrance qualifications, fees, and further details, see Announcement of Macdonald College, which may be obtained from the Registrar, Macdonald College, P.Q.

#### FACULTY OF MUSIC

*Degree offered:* Bachelor of Music (Mus. Bac.).

*Diploma offered:* Licentiate in Music.

*Period of Study in the Faculty for the Degree:* Three years.

For further details see the Announcement of the Faculty of Music.

#### FACULTY OF GRADUATE STUDIES AND RESEARCH

(Pages 467 to 544.)

*Degrees offered:* Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Commerce (M.Com.), Doctor of Philosophy (Ph.D.), Doctor of Civil Law (D.C.L.), Doctor of Science (D.Sc.), Doctor of Music (Mus. Doc.).

#### SCHOOL OF HOUSEHOLD SCIENCE

(Women Only)

*Degree offered:* Bachelor of Household Science (B.H.S.).

*Diplomas offered:* See Macdonald College Announcement.

*Period of Study for the B.H.S.:* Four years.

*Entrance Requirements:* Junior Matriculation.

Yearly Fee for residents of Canada..... \$100

“ “ for non-residents ..... \$125

For details, see the Announcement of Macdonald College, which may be obtained from the Registrar, Macdonald College, P.Q.

#### THE LIBRARY SCHOOL

(Pages 595 to 607.)

*Degree offered:* Bachelor of Library Science (B.L.S.).

*Period of Study:* One year.

*Entrance Qualifications:* B.A. or B.Sc. degree.

Fee, \$150.



McGill, 1931-32

#### SCHOOL FOR GRADUATE NURSES

(Pages 560 to 594.)

*Diplomas offered:* (a) Public Health Nursing; (b) Teaching in Schools of Nursing; (c) Supervision in Hospitals and Schools of Nursing; (d) Organization and Administration of Hospital Nursing services; (e) Organization and Supervision of Nursing in the Community.

*Period of Study for a Certificate:* One year.

*Period of Study for a Diploma:* Two years.

#### SCHOOL OF PHYSICAL EDUCATION

(Pages 545 to 559.) (Women Only)

*Period of Study:* Two years leading to a diploma.

Fee, \$150.

#### SOCIAL SCIENCE RESEARCH

DIRECTOR:—L. C. MARSH.

The study of human relations is forcing itself more and more upon the attention of the institutions of higher education as a field in which their organization and equipment can render new service in the modern world.

Through the generosity of the Rockefeller Foundation, McGill University has been provided with means for co-operative research, concentrating upon the various facets of the social problem the work of economists, psychiatrists, educationists, psychologists, sociologists and others. It is believed that this will render more concrete and effective the work of departments dealing with the social sciences; also, it is hoped that systematic investigation of this nature will produce results beneficial to the community at large.

A Social Research Council has been formed, consisting of the following:

SIR ARTHUR CURRIE,  
*Chairman.*

E. W. BEATTY, K.C.  
JULIAN SMITH.  
A. B. WOOD.  
PROF. JOHN BEATTIE.  
PROFESSOR FRED. CLARKE.  
DEAN P. E. CORBETT.  
DEAN IRA MACKAY.

PROF. GRANT FLEMING.  
PROF. J. C. HEMMEON.  
PROF. C. W. HENDEL.  
PROF. C. KELLOGG.  
DR. FRANK PEDLEY.  
PROF. C. A. DAWSON.  
PROF. C. W. STANLEY.

MR. L. C. MARSH,  
*Director.*

It has been arranged that the special subject of investigation for the coming year will be Unemployment, the investigation being under the direction of Mr. L. C. Marsh, who will be aided by part-time research assistants.

Leonard C. BA (Econ) London



## ENTRANCE EXAMINATIONS

### JUNIOR MATRICULATION

*For admission to the First Year of the Faculty of Arts and Science, the School of Architecture, the Faculty of Agriculture, the Faculty of Music and the School of Physical Education. For the Entrance requirements of other Faculties, see under "Admission" in the Index.*

#### I. REGULATIONS

1. Junior Matriculation examinations are held in June and September—in June at McGill University and local centres; in September, at Montreal only.

ALL INQUIRIES, EXCEPT FROM CANDIDATES IN GREAT BRITAIN, RELATING TO THE EXAMINATIONS SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, an examination will be held regularly in London, Eng., each year, commencing on or about the 16th of June. Full information regarding the exact date of the examination, fees, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, Esq., C.B.E., M.A., LL.D., Secretary, Headmasters' Conference, 5 Paper Buildings, Temple, London, E.C. 4.

2. Every candidate for examination is required to fill up an application form and return it with the necessary fee (for which see page 136) one month before the examination begins. Blank forms may be obtained from the Registrar.

No application for the examination in June, at outside centres, will be received after May 15th.

3. In order to pass, a candidate must obtain 60 per cent of the aggregate for all subjects of the Matriculation Examination, and not less than 40 per cent in any paper; provided, however, that a candidate who makes an exceptionally high aggregate, but fails in one paper only, may be admitted at the discretion of the Faculty or School concerned. The examination may be taken in parts, but it must be completed within sixteen months from the date of the first attempt.

This regulation also applies in the case of certificates granted by other recognized examining bodies.

4. Matriculation certificates will be issued to candidates who have passed the examination conducted by the University, but not to those who have satisfied the greater part of the entrance requirements by means of certificates granted by other examining bodies.



5. The certificates and diplomas named below will (if they have been obtained under no easier conditions than those which apply in the case of the McGill Matriculation certificate) be accepted *pro tanto* in lieu of the Junior Matriculation examination, *i.e.*, in so far as the subjects and standard of the examination taken to obtain them are, to the satisfaction of the Admissions Committee, equivalent to those required for the Matriculation Examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass in the subjects in which they are deficient under the provisions of Regulation 3.

*Intending students who wish to enter by certificates should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificates they hold.*

**Province of Quebec.**

The High School Leaving Certificate.

Candidates for Matriculation, attending schools or colleges in the Province of Quebec, are required to pass the McGill Matriculation examination or the corresponding High School Leaving examination of the Province.

**Province of Ontario.**

Middle School Certificate.

**Province of New Brunswick.**

Grade XI Certificate.

**Province of Nova Scotia.**

Grade XI Certificate.

**Province of Prince Edward Island.**

Second Year Certificate of Prince of Wales College.

**Province of British Columbia.**

Grade XI Certificate.

**Province of Manitoba.**

Grade XI Certificate.

**Provinces of Alberta and Saskatchewan.**

The Departmental Certificate of Standard XI.



**Newfoundland.**

Junior Associate Grade Certificate.

**United States.**

The College Entrance Examination Board Certificate.

**Great Britain.**

The School Certificate (with four or five credits) of:—

The Oxford and Cambridge Schools Examination Board.

The Oxford Local Examination Board.

The Cambridge Local Examination Board.

The Northern Universities Joint Examination Board.

The Central Welsh Board.

Durham University.

Bristol University.

London University.

The certificate granted by the Joint Board of Examiners of the Scottish Universities.

**Miscellaneous.**

Other certificates, such as those issued by reputable universities or recognized public Examining Boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

**II. SUBJECTS OF EXAMINATION**

For 1932

**Faculty of Arts and Science****A. For admission to the Arts Division.**

	Maximum Marks	
1.	200	English.
2.	100	History.
3.	200	Latin or Greek.
4.	200	One of the following: Greek or Latin (the one not already chosen); French; German.
5.	200	Elementary Mathematics.
6.	100	One of the following: Botany; Chemistry; Physics; Music; one paper in Intermediate Mathematics; a foreign language not already chosen (the average of the two papers is counted).

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Total 1,000



*B. For admission to the Science Division.*

	Maximum Marks	
1.	200	English.
2.	100	History.
3.	200	French or German.
4.	200	Elementary Mathematics.
5.	100	One of the following: Botany; Chemistry; Physics.
6.	200	Latin or French or German (whichever has not been already taken) or Intermediate Mathematics*; or any two of the subjects named under No. 5, not already taken, or one of these and Drawing or Music or one paper in Intermediate Mathematics.

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Total 1,000

*C. For Admission to the School of Commerce.*

The B.A. or B.Sc. Matriculation Examination but in the case of the latter Spanish may be substituted for French or German.

## FACULTY OF ENGINEERING

*For admission to the School of Architecture.*

	Maximum Marks	
1.	200	English.
2.	100	History.
3.	200	One of the following:— French, German, Spanish, Latin, Greek.
4.	200	Elementary Mathematics.
5.	200	Intermediate Mathematics.
6.	100	One of the following:— Botany, Chemistry, Physics, a Language not already chosen.

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Total 1,000



Candidates must also satisfy the Head of the School as to their proficiency in Freehand and Geometrical Drawing. To this end they may send in specimens of their work before September 20th, or they may take an examination at the time of the regular matriculation examination in that month.

#### FACULTY OF AGRICULTURE

*For admission to the B.Sc. in Agriculture courses.*

	Maximum Marks	
1.	200	English.
2.	100	History.
3.	200	Latin <i>or</i> French <i>or</i> German <i>or</i> Spanish (French preferred).
4.	200	Elementary Mathematics.
5.	100	Physics <i>or</i> Chemistry.
6.	200	Intermediate Mathematics, <i>or</i> one of No. 3 not already taken <i>or</i> two to be chosen from Botany, Physical Geography, Zoology, Drawing and the subject not taken in No. 5.

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Total 1,000

Candidates for admission to the B.S.A. degree course who have failed to complete the matriculation requirements may be allowed to enter the first year as conditioned undergraduates, provided that they have not failed in more than two papers. Except by special action of the faculty, no student will be permitted to carry a matriculation condition into the second year.

#### SCHOOL OF PHYSICAL EDUCATION

	Maximum Marks	
1.	200	English.
2.	100	History.
3.	200	Latin <i>or</i> French <i>or</i> German <i>or</i> Spanish (French preferred).
4.	200	Elementary Mathematics.
5.	100	Any one of the following:—Botany; Chemistry; Physics; Zoology.

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Total 800



## FACULTY OF MUSIC

	Maximum Marks	
1.	200	English.
2.	100	History.
3.	400	Two of the following:— <b>French; German; Spanish; Italian; Latin.</b>
4.	100	<b>Algebra or Geometry.</b>
5.	100	<b>Rudiments of Music:</b> musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh.

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Total 900

For admission requirements in the School for Graduate Nurses, see page 568.

## PRESCRIPTION OF WORK IN EACH SUBJECT

For 1932

## English.

A. *Composition*. As in the Ontario High School Composition, page 198 to the end (Copp, Clark Co.), with a short essay on a general subject and two or three others based on the works prescribed for reading, as follows:—Shakespeare, *As You Like It* (Copp, Clarke Co.\*); Thackeray, *Henry Esmond* (Macmillan\*); Macdonald's *English Prose Selections* (Macmillan), Part II.

These books should be read carefully, but the student's attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Frequent practice in composition is essential.

B. *Literature* (for critical study).—Shakespeare, *Julius Cæsar* (Copp, Clark Co.\*); Poems of the Romantic Revival, pages 29-56 and 107-162 (Copp, Clark Co., Ltd., Toronto).

Passages for memorization:—

The Prelude, lines 40-56; The Rainbow, the whole; Ode on Intimations of Immortality, lines 58-66; She Dwelt Among the Untrodden Ways, the whole; The World Is too Much With Us, the whole; Ode to a Nightingale, lines 61-70; Songs from Pippa Passes, lines 1-8; The Italian in England, lines 145-160; Andrea del Sarto, lines 69-98; Aso-

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\* These editions are recommended, not prescribed.



lando, lines 11-20; As You Like It, Act II, Scene VII, lines 139-166; Julius Cæsar, Act II, Scene I, lines 10-35; Act III, Scene I, lines 148-163; Act III, Scene II, lines 217-231; Act V, Scene V, lines 68-75.

Candidates will also be expected to commit to memory other passages of a striking nature, but not exceeding 25 per cent of the amount prescribed.

Two examination papers; one on Composition and the other on Literature (for critical study).

Spelling will be tested by the candidates' papers in English. Examiners in other subjects will also take note of mis-spelled words.

### History and Historical Geography.

General History from 1300 A.D. to the present time. Any standard General History, such as Myers, General History (Ginn and Co.), may be used as a text book.

*Or*

British History from 1714 to the present time. *Text-Book*:—The Groundwork of British History, by Warner and Marten (Blackie & Sons, Edinburgh), Part III, with appendices.

The geography required will be that relating to the history prescribed.

One examination paper.

### Greek.

*Texts*:—Easy Selections from Xenophon, Philpotts and Jerram, chaps. 3, 4, 5; Homer, Iliad I, lines 1 to 350.

*Grammar*.—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

*Translation at Sight* from Greek into English.

Two examination papers; one on Xenophon and Composition, the other on Homer and Translation at Sight.

### Latin.

*Texts* (Translation and Grammatical study).

Selections from Cicero, ed. Charles (Bell's Illustrated Classics); Virgil, Aeneid, Book II.

*Grammar*.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.



*Translation at Sight* from Latin into English.

*Composition*.—Translation into Latin of detached English sentences and easy narrative.

Two examination papers; one on Cicero and Composition, and the other on Virgil and Translation at Sight.

Note.—The "Roman" method of pronouncing Latin is recommended.

### French (Direct Method).

*For intensive work*.—Berthon's Grammar, complete; Dent's First Exercises; Les braves gens (Hachette).

*For reading and discussion*.—Les quatre contes choisis, Daudet.

Two papers, including grammar, syntax, composition and reproduction of a story. The whole to be written in the French language.

### French (Indirect Method).

*Prescribed texts*.—Daudet, Trois contes choisis (Heath); Jules Girardin, Les braves gens (Oxford University Press, Toronto).

*Grammar*.—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

*Translation* into English from prescribed texts and at sight of a French passage of moderate difficulty.

*Translation at Sight* into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French grammar.

*Books recommended*.—Fraser and Squair's French Grammar or Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

Two examination papers; one on prescribed texts and grammar, including translation of short English sentences into French, and one on translation of continuous passages from French into English and from English into French.

### German.

*Texts*.—(Translation and grammatical study):—

Guerber, Märchen und Erzählungen (Heath), omitting Nos. 3, 4, 10, 14 and Poems; Baumbach, Der Schwiergershon (Copp, Clark Co.).



*Grammar.*—A thorough knowledge of German accidence and syntax, as in Van der Smissen, or any other German grammar of equally good standing.

*Translation at Sight* into English of a German passage of moderate difficulty.

*Translation into German* of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

#### Spanish.

Two papers will be set, containing (1) questions on grammar and syntax, (2) passages for translation from prescribed text-books, (3) unseen translation from Spanish into English, and (4) translation from English into Spanish.

*Texts prescribed:*—Juan Valera's "El pajar verde" (Ginn & Co.), Hills & Cano, "Cuentos y Leyendas" (Heath & Co.).

*Books recommended:*—Coester's Spanish Grammar (or any other good Spanish grammar); Cool's Spanish Composition.

#### Italian.

*Prescribed texts:*—Bowen's Italian Reader (Heath); Manzoni, I promessi sposi.

*Grammar.*—A thorough knowledge of Italian accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

*Translation at Sight* into English of an Italian passage of moderate difficulty.

*Translation into Italian* of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of Italian grammar.

*Books recommended:*—Grandgent's Italian Grammar (Heath); Grandgent's Italian Composition (Heath).

Two papers will be set; one on grammar, including translation of short English sentences into Italian, and one on translation of continuous passages from Italian into English (from prescribed texts) and from English into Italian.



**Elementary Mathematics.**

*Algebra.*—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, ratio and proportion, as in Hall and Knight's Elementary Algebra. Chapters I to XXXII (omitting portions marked with an asterisk and Arts. 303-311), or as in similar text-books.

One examination paper.

*Geometry.*—The paper will contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate must provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry will consist of theorems contained in the text-book prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

*Text-book recommended:*—Hall and Stevens' School Geometry, pp. 1-203, 219-265, 267-276 and Theorems 69, 70, 71, 72.

One examination paper.

**Intermediate Mathematics.**

*Algebra.*—The three progressions, variations, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper.

*Geometry.*—As in Hall and Stevens' School Geometry, pp. 192-322, or as in similar text-books.

*Trigonometry.*—Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I to XII; Hall and Knight's Elementary Trigonometry, Chaps. I to XII, inclusive; Hall and Knight's Elementary Trigonometry, revised Canadian edition, Chaps. I to X, inclusive; or as in similar text-books.

Geometry and Trigonometry will be included in one examination paper.



**Chemistry.**

An elementary treatment of the fundamental principles of chemistry, with the preparation and properties of the commoner elements and their most important compounds, the application of these in the home and in the industries, the laws of chemical action, the essential hypotheses, etc.

*Text-book*:—"Elementary Chemistry for High Schools" (Revised Edition) by Nevil Norton Evans (W. J. Gage & Co. Ltd., Toronto), Chaps. I-XXV inclusive.

One examination paper.

**Physics.**

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

*Text-book recommended*:—High School Physics, by Merchant and Chant (revised edition), Parts I, II, III, IV and VI, or the equivalent in other text-books.

One examination paper.

**Botany.**

Candidates will be examined on the following schedule:—

1. The form, structure and work of plants, especially higher plants, and of their various organs.

Bergen and Caldwell, Chapters I to IX and XXI, with some amplification as to microscopic structure and physiology. The practical work in Eikenberry provides a basis for this amplification. The teacher is referred to Gager, Parts I and II.

2. Broad classifications and comparative study of the main groups of plants; familiarity with standard types.

Bergen and Caldwell, Chapters X to XIX.

3. Distinguishing characters of the commoner families of flowering plants. (Bergen and Caldwell, Chapter XX.) Field study; an elementary acquaintance with the flora and ecology of the district in which the candidate lives. (The remaining chapters of Bergen and Caldwell may serve as a guide, but first hand acquaintance with local plants is mainly desired.)

*Text-books*:—Bergen and Caldwell's "Practical Botany," to be used with Eikenberry's "Problems in Botany," a laboratory manual for the guidance of teachers. Gager's "General Botany," or Macgregor Skene's "Biology of Flowering Plants" are also recommended for teachers.



**Physical Geography.**

*(For candidates entering the Faculty of Agriculture.)*

Tarr's new Physical Geography, Chapters I to XIV and appendices A to H inclusive, or the Ontario High School Physical Geography (Ryerson Press).

**Music.**

The Intermediate Grade Certificate of McGill University in practical subjects and the Junior Grade Certificate in theoretical *or* vice versa. (Details will be found in the Announcement of the Conservatorium of Music.)

**Drawing.**

Candidates may take either Parts I and II or Parts III and IV.

**PART I**

Elementary problems in Geometrical Drawing, with applications, as in Part I of Armstrong's Geometrical Drawing (Renouf and Co.).

**PART II**

- (a) Reproduce freehand ornament designs from flat copies.
- (b) Make drawings, by freehand, or otherwise, of objects described, illustrating the principles of perspective.
- (c) Make outline drawings of objects placed at a short distance.

**PART III**

Draw in light and shade, with charcoal or pencil, from a plaster cast or ornament in high relief.

**PART IV**

Make water colour drawings of still life groups.

**SENIOR MATRICULATION**

*For admission to the Second Year of the Faculty of Arts and Science or the First Year of Engineering (see page 93).*

**I. B.A. COURSE**

English.

Latin *or* Greek.

Mathematics *or* a third foreign language.



Any two of the following:—

1. History.
2. Latin *or* Greek (the one not already taken).
3. French.
4. German.
5. Science (Physics *or* Chemistry *or* Biology).

Candidates cannot substitute a third foreign language for Mathematics unless they have passed in the Mathematics prescribed for Junior Matriculation.

## II. B.Sc. COURSE

Chemistry.  
English.  
French *or* German.  
Mathematics.  
Physics.

## III. B.COM. COURSE

English.  
Mathematics.  
French *or* German *or* Spanish.  
Accountancy.

Any two of the following:—

1. Latin *or* Greek.
2. French *or* German *or* Spanish (one not already taken).
3. Physics *or* Biology *or* Chemistry.
4. History.

## THE FACULTY OF ENGINEERING B. ENG. COURSE

(a) Compulsory:—

English.  
Mathematics.  
Physics.

(b) Electives.

Any two of the following:—

History, Biology, French, German, Greek, Latin, Spanish,  
Chemistry.

*(Chemistry will be compulsory in 1932 and thereafter.)*

This examination may be taken in two parts, but a candidate must complete the requirements within sixteen months from the date of the first attempt. The pass mark is 50 per cent in each paper.



## REQUIREMENTS IN EACH SUBJECT

*(For the Years 1932 and 1933)***Accountancy.**

Double-entry bookkeeping, control accounts, trading and profit and loss statements, balance sheets, various forms of Cash Books, imprest system petty cash, Columnar Journals, Bills Registers, reserves for discounts, bad debts and depreciation, single-entry, consignments, working sheets, inward and outward freight, capital and revenue expenditure, bills of exchange, bills of lading, etc.

*Text-books:*—"Accounting Principles and Practice," by Smails and Walker (Ryerson Press, Toronto), Chapters 1-7 inclusive, and "One Hundred and Twenty Graduated Exercises in Bookkeeping," by Thompson (Pitmans, Toronto). Exercises A to Q, inclusive.

One examination paper.

Further details will be given on application to the Registrar.

**Biology.**

*Text-books:*—Biology, by H. W. Coun (Silver, Burdett & Co.), Chapters 1 to 10 inclusive; Animal Biology, by J. B. S. Haldane and Julian Huxley (Clarendon Press), and the life history of Spirogyra, Mucor, and a fern, as in any good elementary text-book of Botany.

In addition, a certificate will be required, signed by the Headmaster of the school attended, to the effect that the candidate has regularly carried out the necessary laboratory work on the course indicated.

One examination paper.

**Chemistry.**

*Text-book:*—Newell, College Chemistry (1925), omitting Chapters 21, 22, 24 (sections 485-487 inclusive), 28 (sections 571-574 inclusive, and 589), 30 and 40.

One examination paper.

Commencing with the examinations in 1933, the student's notebook, setting forth his own laboratory work, certified by the Instructor and Headmaster of the School, must be forwarded to the Registrar for the examiner's evaluation.

**English.**

*Composition.*—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of



words. In preparation for the examination it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Carpenter's Rhetoric and English Composition (Macmillan) is recommended as a suitable text-book.

*Literature.*—The examination will be based on the following texts:—Chaucer's Prologue to the Canterbury Tales; Spenser's Faerie Queene, Book 1, Cantos 1 and 2; Shakespeare's Macbeth and As You Like It; Milton's Minor Poems (L'Allegro, Il Penseroso, Lycidas and Comus); and Bunyan's Pilgrim's Progress, Part I.

Candidates will also be expected to read Long's English Literature (Ginn & Co.), Chapters I-VII, inclusive, with special emphasis on the portions most closely connected with the foregoing list of books.

Two examination papers.

#### French.

Bouvet, French Syntax and Composition (Heath); Lavissee, Histoire de France, Cours Moyen; Maupassant, Huit Contes Choisis; Jules Verne, Le Tour du Monde (Heath); Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford).

*Translation at Sight* from English into French and from French into English.

Two examination papers.

#### German.

Van der Smissen and Fraser, High School German Grammar (Copp, Clark Co.); Hauff, Die Karavane (Macmillan or Holt); Diamond and Reinsch, Nachlese (Holt).

*Translation at Sight* from German into English and from English into German.

Two examination papers.

*Requirements for 1933:*—Van der Smissen and Fraser High School Grammar (Copp, Clark Co.), Lessons I-XL, XLIV-XLIX, LX, LXI; Super, Elementary German Reader (Ginn), pp. 1-75; Hauff, Die Karavane (Macmillan).

#### Greek.

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.



The examination will include a paper on grammar, composition and sight translation.

Either of the following books is recommended for grammar:—First Greek Grammar, Rutherford (Macmillan); Goodwin's Greek Grammar (Ginn & Co.).

Two examination papers.

### History.

General History of Europe from the break-up of the Roman Empire to the present day.

No text-book is prescribed. Such a book as J. H. Robinson's Introduction to the History of Western Europe (new brief edition in one vol., Ginn & Co.) would furnish the candidate with an adequate basis of knowledge. G. B. Adam's European History, an Outline of its Development, would also be found useful. The student will find Robinson's Readings in European History a valuable supplement to whatever text-book he uses.

Candidates should read at least one of the works in each of the following groups:—

- (1) Einhard's Life of Charles the Great (tr. S. E. Turner, American Book Co., or W. Glaister, Bell & Son); Memoirs of the Crusades (Everyman's Series); Froissart's Chronicles (Everyman's Series).
- (2) Machiavelli's Prince (Everyman Series); Macaulay's Essays on Machiavelli and Fiske's History of the Popes; Motley's Rise of the Dutch Republic, Part III (Everyman's edition, vol. II).
- (3) Macaulay's Essays on the War of the Succession in Spain and Frederick the Great; Carlyle's French Revolution.
- (4) A. W. Kinglake's Eothen; G. M. Trevelyan's Garibaldi and the Thousand.

One examination paper.

### Latin.

Virgil, Aeneid I (Sidgwick Camb. Univ. Press, edition with vocabulary); and Cicero, In Catilinam, I, III, IV.

The examination will include a paper on grammar, composition and sight translation.

The grammar recommended is New Latin Grammar by Sonnenschein (Oxford Clarendon Press).

Two examination papers.



**Mathematics.**

*Algebra.*—Hall and Knight's Elementary Algebra (omitting chapters 40-44, inclusive), or the same subject matter in similar text-books.

*Plain and Solid Geometry.*—Hall and Stevens' School Geometry to Theorem 98, inclusive, omitting pp. 319 to 346, inclusive.

*Trigonometry.*—Hall and Knight's Elementary Trigonometry, Chapters I to XVI, inclusive, and pp. 198, 199, or Hall and Knight's Elementary Trigonometry, revised Canadian edition, Chaps. I to XIII, inclusive, and pp. 204, 205.

Two examination papers, one on Algebra and one on Geometry and Trigonometry.

**Physics.**

A general knowledge of the more important principles of elementary physics will be required.

*Text-book:*—Kimball, College Physics (Henry Holt & Co., New York, 1912).

The student's notebook, setting forth his own laboratory work, certified by the Instructor and Headmaster of the School, must be forwarded to the Registrar for the examiners' valuation. Unless this is done, an examination on practical physics will have to be taken.

One examination paper.

**Spanish.**

Two papers will be set as in the Junior Matriculation, but the examination will be of a more advanced character.

*Text-books prescribed:*—Baroja's "Zalacaín el aventurero" (Heath & Co.); Azorín's "Las Confesiones" (Heath & Co.)

"Temas españoles," Crawford (H. Holt & Company).

**CERTIFICATES RECOGNIZED**

The following certificates will be accepted for the subjects covered by them towards meeting the foregoing requirements:—

**Province of Ontario.**

Upper School Certificate.

**Province of Nova Scotia.**

Grade XII Certificate.



**Province of Prince Edward Island.**

Third Year Certificate of the Prince of Wales College.

**Province of Manitoba.**

Grade XII Certificate.

**Provinces of Alberta and Saskatchewan.**

Grade XII Certificate.

**Province of British Columbia.**

Senior Matriculation Certificate.

**Newfoundland.**

Senior Associate Grade Certificate.

**Great Britain.**

The Higher Certificates of :—

The Oxford and Cambridge Schools Examination Board.

The Oxford Local Examination Board.

The Cambridge Local Examination Board.

The Northern Universities Joint Examination Board.

The Central Welsh Board.

Durham University.

Bristol University.

London University.

**APPLICATION FOR ADMISSION**

Application forms for all years in the Faculty of Arts and Science, and for the First Years in Engineering and Medicine may be obtained from the Registrar's Office. Application for admission to other faculties or years should in the first instance be made to the Registrar.

**ADMISSION FROM OTHER UNIVERSITIES**

A student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a Calendar of the University in which he has previously studied, together with a complete statement of the course he has followed and a certificate of the standing gained therein.

**PHYSICAL EXAMINATION, VACCINATION AND HEALTH**

Every student entering the university for the first time and all Second Year students must be physically examined and vaccinated if necessary. Students must also be physically examined before taking part in athletic activities. For further information, see p. 228.



## CLASSES OF STUDENTS

There are four classes of students in the University :—

- (1) Graduates—students who have previously obtained a Bachelor's degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree, or for the degree of Ph.D.
- (2) Undergraduates—Students with complete matriculation qualifications taking the regular work of their year towards a degree.
- (3) Limited Undergraduates—Students in the Faculty of Arts and Science with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.
- (4) Partial Students—Students not studying for a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Heads of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has failed to matriculate in any subject is not allowed to register as a partial student.



## REGISTRATION AND ATTENDANCE

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### 1. REGISTRATION

The dates for the registration of students in the different Faculties for the session 1931-32 will be found on page 63.

Women students of the Faculty of Arts and Science after registration, are required to enter in the roll book of the Royal Victoria College their names, home addresses and addresses in Montreal. Students of the College not residing with their parents or guardians in Montreal, and who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

Students of all Years above the First are allowed to register after the official registration days only on payment of a fee of \$5.00 during the first week of the session, and of \$10.00 during the second.

This fee is not refunded, except for satisfactory reasons and by authorization of the Faculty concerned.

After the fifteenth day of the session no student is admitted, except by special permission of the Faculty concerned.

### 2. ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.\* In Engineering this regulation is notified by the Faculty in so far as lectures in the Second, Third, and Fourth Years are concerned, the regulations being posted at the beginning of the session. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course in which attendance is compulsory are not permitted to come up for the regular examination in that course, and those whose unexcused absences in such courses have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or inevitable accident, are dealt with only by the Deans of the respective Faculties.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases are dealt with by the Dean of the Faculty.

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\* Physical education is included under this regulation.



3. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lectures are marked absent.

### CHANGING COURSES

Students may change the courses for which they have registered provided that the changes do not conflict with the regulations and that the change is made within twenty days of the commencement of the session. No changes can be made after this period. Application to change courses must be made to the Registrar's Office.

### ADVISERS

Before he actually registers each student entering the First Year is interviewed by a member of the Committee of the Board of Student Advisers. At this interview the student is given any information or advice that he may need and is assisted in the selection of his courses. At the same time he is assigned to an adviser whom he may consult at any time and should consult at least once a month.



## SCHOLARSHIPS, MEDALS AND PRIZES

### GENERAL REGULATIONS IN ARTS AND SCIENCE

1. No student can be awarded more than one scholarship in Group C or D; in Groups A and B, however, a student may hold more than one.
2. Scholarships will be awarded only if an adequate standard is attained.
3. If in any College Year there is not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another Year.
4. In order to retain his scholarship a successful candidate must proceed regularly with his college course to the satisfaction of the Faculty.
5. The annual income of the scholarships will be paid in four instalments, viz.:—In October, December, February and April, about the 20th of each month.

### GROUP A.—ENTRANCE SCHOLARSHIPS

*Unless otherwise stated, applications for these scholarships must be made to the Registrar before August 1st.*

#### The Ottawa Valley Exhibitions

These three exhibitions are:—

1. The P. S. Ross Exhibition, of the value of \$100, founded by Mr. P. D. Ross, B.A.Sc., in memory of his father, the late Mr. P. S. Ross.
2. The Ottawa Valley Graduates' Society Exhibition of the value of \$75.
3. The Dr. H. Ami Exhibition, of the value of \$50, given by Mrs. H. Ami in memory of her husband, the late Dr. H. Ami.

These exhibitions are given through the Ottawa Valley Branch of the Graduates' Society and are open only to bona fide residents of the Ottawa Valley. The exhibitors are selected by the University from candidates who have written (1) The McGill Junior Matriculation Examination or (2) The Quebec High School Leaving Examination or (3) The Ontario Middle School Examination. In exceptional cases a candidate who has written the McGill Senior Matriculation or the Ontario Upper School examinations may be considered.



### **The Sidney J. Hodgson Exhibition**

These exhibitions were founded by Arthur J. Hodgson, Esq., in memory of his son, Sydney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. One of these exhibitions is of the value of \$250 and the other of \$175. They are open to pupils of the Westmount High School who have been in attendance for at least one year, and are awarded on the result of the June matriculation examination to the two pupils who obtain the highest and the second highest percentage, respectively, on the subjects required for entrance to the Faculty of Arts and Science, and who attend the University during the ensuing session.

### **Bursaries Granted by the Imperial Order of the Daughters of the Empire**

These bursaries are of the annual value of \$300, are tenable for four years at any university and are open to the sons and daughters of deceased or permanently or seriously disabled soldiers and sailors. At least one is available for each Province each year.

Full information can be obtained by writing to the Provincial Educational Secretary Office, 12 Mount Royal Hotel.

### **Scholarship Granted by the Graduates' Society of the District of Bedford**

This scholarship, of the value of \$120, is awarded annually to a "matriculated student in Arts and Science whose parents reside in the District of Bedford, and whose candidature has been approved by a committee of the Society."

### **Narcissa Farrand (Mrs. N. Pettes) Scholarship**

This scholarship, of the value of \$300 (\$150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of \$7,000 out of the Narcissa Farrand Fund, is awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts and Science matriculation examination in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination.

### **The Trafalgar Scholarship**

Founded in 1913 by certain friends and former pupils of Miss Grace Fairley, to signalize her long and faithful service to education in Montreal, and particularly as head of the Trafalgar Institute. It is of the value of \$135, is tenable for one year only, and is awarded



annually to the student of Trafalgar Institute who obtains the highest marks in the June matriculation examination and matriculates as an undergraduate in the Faculty of Arts and Science.

#### Scholarship for Holders of Intermediate Diplomas

A scholarship of \$150 is offered annually in the Faculty of Arts and Science to holders of Intermediate diplomas obtained after a course of study in Macdonald College, under the following conditions:—

(1) Candidates must apply through the Dean of the School for Teachers before May 1st.

(2) They must satisfy the entrance requirements of the Faculty of Arts and Science and declare their intention to proceed to a First Class High School diploma following the course prescribed by the University.

The scholarship is awarded on the academic subjects of the examination for the Intermediate diploma; but although the practice marks are not taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a University course is considered. In case there is no applicant from the graduating class in any year, application from graduates of previous years are considered on their merits.

Holders of this scholarship are permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

#### The Sir William Macdonald Entrance Scholarships in Arts and Science

The following scholarships, endowed by the late Sir William Macdonald, tenable in the Faculty of Arts and Science, and open to men only, are offered for competition in June each year:—

Five scholarships, of the value of \$150 each (three open to candidates not residing on the Island of Montreal), are awarded on the result of the matriculation examination in June.

#### University Entrance Scholarships in Arts and Science

Three scholarships of the value of \$100 each and two of the value of \$75.00 each (one of each value open to candidate not residing on Montreal Island) are offered for entrance to the Faculty of Arts and Science, and are awarded on the result of the matriculation examination in June.

#### Royal Victoria College Entrance Scholarships

Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value



of \$200 and one of \$100. These are awarded on the result of the matriculation examination.

#### The Hon. Robert Jones Scholarship

THE HON. ROBERT JONES SCHOLARSHIP, having a value of One Hundred and Twenty-five Dollars (\$125) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering."

Application for this scholarship should be made through the Dean of the Faculty of Arts and Science or Engineering, as the case may be. In awarding the scholarship the standing of the student in the matriculation examination is considered, and the scholarship is not continued if the standing of the student at any time during his course proves to be unsatisfactory.

#### The Robert Bruce Bursaries and Scholarships

Under the will of the late Robert Bruce, of the City of Quebec, provision is made for the establishment of bursaries and scholarships.

One bursary, of the value of \$100, is open each year to "young men and women of promising abilities but of straitened circumstances who have qualified for entrance and are taking a course of study in Arts and Science or Engineering."

Two scholarships have also been established; one open to candidates for entrance to the University, of the value of \$100, tenable for one year, awarded for high standing at the Matriculation Examination. For the other which is awarded on the result of the First Year Examinations in Arts and Science, see page 109.

In 1931-32 a fourth Scholarship will be available.

For the first twenty-five years students of Scottish extraction will be given the preference.

#### The Lord Atholstan Scholarship

1. This scholarship, of the value of \$1,000, has been donated by Right Honourable Lord Atholstan for competition among the pupils of Huntingdon Academy who have taken their full high school course of study in that institution. It is awarded to the pupil in this category who obtains the highest standing at the June Matriculation Examination for entrance to any Faculty and who attends McGill University during the subsequent session.

2. The holder of the scholarship will receive \$250 per year for four years, but the scholarship will be forfeited at any stage through failure to satisfy the regulations of the University regarding advancement from year to year. The amount of the annual scholarship will be paid to the scholar in four equal instalments.



#### The Edith Silver Memorial Scholarship

1. This scholarship, founded by The Delta Phi Epsilon Sorority and of the value of \$100.00, is awarded on the result of the June University Matriculation examination or the High School Leaving Examination of the Province of Quebec covering the subjects required for admission to the Faculty of Arts and Science.

2. It is open to women students who obtain over 70% of the total marks possible and is awarded to the applicant who stands highest in this division and who at the same time needs assistance to undertake the course.

#### The Isabella C. MacRae Scholarship

By the bequest of \$3,021 from the late Isabella C. MacRae, a scholarship has been founded, open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no applicants from this locality for six years, the scholarship will be open to any resident in Ontario.

#### The Christie, Storer Chapter Scholarship

A scholarship of the value of \$150.00 is given by the above-named Chapter of the I.O.D.E., to the pupil of St. Lambert High School who stands highest in the June Matriculation Examination each year.

#### Canadian Pacific Railway Scholarships

Scholarships covering one year's tuition in the Faculty of Arts and Science and four in the Faculty of Engineering or five years in the School of Architecture are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons of employees, and the award is made on the result of the Junior Matriculation Examination in June. For full particulars as to number of scholarships available, etc., application should be made to F. J. Curtis, Esq., Staff Registrar and Secretary, Pension Department, C.P.R. Offices, Montreal.

#### The Beatty Scholarships

Two scholarships, of the value of \$600 each, have been founded by Dr. E. W. Beatty, Chancellor of the University. The scholarships are payable at the rate of \$150 per annum for four years, and are tenable only in the Faculty of Arts and Science, one by students pursuing a course in Honour Classics (Greek and Latin), the other by students studying Honour Mathematics or Honour Mathematics and Physics, throughout four years. The award is made on the standing of the candidates in the Matriculation Examination, and the result of a special examination in connection with the Matriculation Examination in June.



This special examination is, in the case of Classics, in the form of two papers on prose and sight work and, in the case of Mathematics, of a special three-hour paper on topics of Algebra, Geometry and Trigonometry of the standard of Intermediate Mathematics. (See page 90.)

Applications must be received before May 15th.

These scholarships are open only to male students, educated in Canadian schools, whose parents are British or Canadian born.

The holder of the scholarship must read for Honours in the subject in which he won the scholarship.

#### Affiliated Theological College Scholarships

**THE UNITED THEOLOGICAL COLLEGE SCHOLARSHIP.**—The Board of Governors of the United Theological College offers scholarships for the payment of fees of undergraduates in Arts and Science who are registered at this College as in training for the study of theology with a view to the Christian Ministry and who have passed with credit the sessional examinations. For particulars, application should be made to the Principal, 3506 University Street, Montreal.

**PRESBYTERIAN COLLEGE SCHOLARSHIP.**—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts and Science who are registered at the Presbyterian College as in training for the study of theology with a view to the Ministry and who have creditably passed the sessional examinations. For further particulars, application should be made to the Principal, the Presbyterian College, Montreal.

#### GROUP B.—SCHOLARSHIPS IN ARTS AND SCIENCE AWARDED ON THE RESULT OF THE SESSIONAL EXAMINATIONS

**THE JANE REDPATH SCHOLARSHIP.**—Founded by the late Mrs. Redpath, of Terrace Bank, Montreal, for the maintenance of a scholarship in Arts and Science. It is awarded on the result of the sessional examination of the First Year to the student who makes the highest average on the year's work. Value of scholarship, \$115.

**THE BARBARA SCOTT SCHOLARSHIP.**—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value, \$115.

**THE JAMES DARLING MCCALL SCHOLARSHIP.**—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the close of the war, in which he had served with distinction. This scholarship will be awarded each



year to a male student of the Third Year of Arts and Science who has "given proof of scholarship and ability as an honour student in the subject of English and Philosophy." It is of the value of \$275.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship has been founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of the First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916. It is of the value of \$250 and is awarded annually on the result of the examination in English and Economics of the Second Year, and is subject to the condition that the holder take an Honour Course in English, with Economics as a minor subject in his Third Year, or the Honour Course in English and Economics, should such be established. It is open to male students in the Faculty of Arts and Science professing the Christian religion.

MACKENZIE SCHOLARSHIPS.—Four scholarships, known as the Mackenzie Scholarships, are awarded annually in the Department of Economics and Political Science. Two of these, of the value respectively of \$100 and \$50, tenable for one year, are awarded, on the results of the Second Year examination in Economics 1 and 3, to students whose courses have been approved by the Department, but no student is eligible who has not completed the work of this Year. The tenure of the scholarships is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Third Year. The other two scholarships, of the value respectively of \$100 and \$50, are awarded on the result of the honour examination of the Third Year in Economics and Political Science. The scholarships will not be awarded except on satisfactory evidence of merit; their tenure is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Fourth Year.

A Fourth Year Mackenzie scholarship may be held by a student who holds another; a Third Year scholarship cannot.

THE SIR WILLIAM DAWSON SCHOLARSHIP.—Given by the New York Graduates' Society; value, \$60.

THE DR. BARCLAY SCHOLARSHIP.—Awarded in the Classical Department; value, \$50.

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of annual value \$100, tenable for three years, will be awarded for high standing in the examinations at the end of the First Year.

THE HOUSTON SCHOLARSHIP.—Founded by the will of the late Thomas Houston, for the purpose of establishing a scholarship for



French students studying for the Presbyterian Ministry. It is open only to undergraduates in the Faculty of Arts and Science under the above restriction and is awarded on the result of the sessional examination without regard to Year. The value of the scholarship is about \$85.00.

**THE HOWARD MURRAY SCHOLARSHIPS.**—Two scholarships of the value of \$100.00 each will be awarded for the next session through the kindness of Howard Murray, Esq., to the two students who obtain the highest marks in French in the Third Year Commerce, and who continue their studies in this subject in the Fourth Year.

**THE NATHAN FISH MEMORIAL SCHOLARSHIP.**—This scholarship, of the value of \$50.00, has been founded by the Chi Chapter of the Sigma Alpha Mu Fraternity in memory of Nathan Fish, a student in Pharmacy who died in 1925. It is awarded annually to the student obtaining the highest distinction in the Second Year honour subjects of the Department of English, or in any other course or courses at McGill University, which the authorities may select.

**THE MARGARET JANE ALLAN SCHOLARSHIP.**—This scholarship, of the value of \$300, was established in 1929 by a bequest to the Royal Victoria College from the late Mrs. Agnes W. Allan, wife of the late Dr. J. H. B. Allan, a resident of Montreal. It is awarded each year to the woman student in either the B.A. or the B.Sc. course in Arts and Science who obtains the highest standing in the sessional examinations of the First Year.

**PETERSON MEMORIAL SCHOLARSHIP IN CLASSICS.**—Founded in memory of his father the late Sir William Peterson, Principal of McGill University from 1899 to 1918, by W. G. Peterson, M.A., who in his will left a legacy of \$10,000, the interest on which is to provide an annual scholarship to be known as the "Peterson Memorial Scholarship in Classics" and awarded to the most promising student in Classics in McGill University whom the Faculty of Arts and Science may select. Annual value, \$550.00.

**W. M. BIRKS SCHOLARSHIP.**—A scholarship of \$500 a year for four years established in the Department of Classics by Mr. W. M. Birks for a boy selected from certain British Public Schools.

**GROUP C.—SECOND YEAR SCHOLARSHIPS IN ARTS AND SCIENCE  
AWARDED ON THE RESULT OF A SPECIAL EXAMINATION  
IN SEPTEMBER**

Six scholarships, ranging in value from \$100 to \$150 each, will be offered for competition to students entering the Second Year in September, 1931.



The subjects of examination are divided into two groups, as follows:—

Group I.—Greek, Latin, French, German, English, History.

Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. A candidate may not choose as his minor subject one of the subjects chosen as his major subjects. Two scholarships of \$150 each and two of \$100 each are offered to candidates taking their major subjects from Group I, and one of \$150 and one of \$100 to candidates taking their major subjects from Group II.

One of these scholarships is "The Charles Alexander Scholarship," for men only, and is awarded for "classics and other subjects."

The above scholarships are open to all undergraduates in Arts and Science whether they are taking the B.A. or the B.Sc. course.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

#### REQUIREMENTS IN EACH SUBJECT

##### **Greek.**

*(As a Major Subject)*

- I. (a) Homer, *Odyssey* VI.  
(b) Colson, *Greek Reader*, pages 88–116.
- II. Translation at sight.
- III. History:—Edmonds, *Greek History for Schools* (Camb. Univ. Press), to the end of the war with Persia.

*(As a Minor Subject)*

The same as above, omitting I (b) and III.

##### **Latin.**

*(As a Major Subject)*

- I. (a) Cicero, *De Senectute*.  
(b) Horace, *Odes* II.
- II. Composition and translation at sight.
- III. Roman History:—How and Leigh, from the foundation of Rome to the end of the Second Punic War.

*(As a Minor Subject)*

The same as above, omitting I (b) and III.



**French.***(As a Major Subject)*

(a) Grammar; (b) translation at sight of an English passage into French; (c) French essay on a prescribed subject; (d) translation of passages taken from the prescribed texts; (e) a critical story of the following texts, tested by questions in the French language to be answered in French:—

Corneille, Cima (Holt); Molière, La Malade Imaginaire (Macmillan); Rudmose-Brown, French Short Stories (Oxford); Loti, Pêcheurs d'Islande (Rivington).

*(As a Minor Subject)*

The same as above, omitting Molière and Rudmose-Brown.

**German.***(As a Major Subject)*

(a) Grammar; (b) translation at sight from German into English and from English into German; (c) critical study and translation of the following texts:—

Schiller, Maria Stuart (Heath & Co.); Fulda, Talisman (Heath); Hauff, Lichenstein (Heath).

*(As a Minor Subject)*

The same as above, omitting Schiller.

**English.***(As a Major Subject)*

Shakespeare, Twelfth Night (ed. Macmillan); Macaulay, History of England, Vol. I, Chap. 3 (England in 1685); Scott, Marmion; Thackeray, Pendennis; George Eliot, The Mill on the Floss; Tennyson, The Coming of Arthur, The Last Tournament.

*(As a Minor Subject)*

The Scott and Tennyson prescribed above.

**History.***(As a Major Subject)*

J. A. Symonds: Short History of the Renaissance in Italy (one volume); M. Creighton: A History of the Papacy from the Great Schism to the Sack of Rome, Book VI; More's Utopia.

*(As a Minor Subject)*

J. A. Symonds: Short History of the Renaissance in Italy (one volume).



**Mathematics.***(As a Major Subject)*

*Plane Geometry.*—Godfrey and Siddon's Modern Geometry, omitting appendices.

*Algebra.*—Hall and Knight's Higher Algebra; also Fine's College Algebra (Ginn & Co.), pages 424 to 511.

*Plane Trigonometry.*—Carslaw's Plane-Trigonometry (Macmillan & Co.), except Chap. 13.

*(As a Minor Subject)*

The mathematics of the First Year general course.

**Physics.***(As a Major Subject)*

Duncan and Starling's "Heat, Light and Sound" (Macmillan); and Bragg's "Concerning the Nature of Things."

*(As a Minor Subject)*

Kimball's "College Physics" (Henry Holt & Co.).

GROUP D.—THIRD YEAR SCHOLARSHIPS IN ARTS AND SCIENCE  
AWARDED ON THE RESULT OF A SPECIAL EXAMINATION  
IN SEPTEMBER

The following five scholarships, of the value of \$300 (\$150 per year for two years), are open for competition to students entering the Third Year in September, 1931.

One for English and History and another language.

One for Latin or Greek and another language† (English excepted).

One for French or German and another language† (English excepted).

Two for Mathematics and Physics.

Of the above five scholarships two are known as "Sir William Macdonald Scholarships" and are open to men only.

The four following scholarships, of the value of \$150 each, are also offered for competition to students entering the Third Year:—

One for Philosophy.

One for Psychology.

One for Chemistry.

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† The language not chosen in the first instance may be taken as the second language.



(Of the above three scholarships, one is called a "Sir William Macdonald Scholarship" and is open to men only.)

One for Biology.

(This scholarship is called "The Major Hiram Mills Scholarship." It is open to both men and women.)

A Bursary of \$25 will be awarded to the holder of one of these four scholarships who is considered most deserving on entering the Fourth Year.

An exhibition of \$80, to be known as the Hannah Willard Lyman Exhibition, is also awarded annually in the Fourth Year, to the best woman student who may have been the holder of a Third Year scholarship in biology or chemistry or philosophy. Should there be no sufficiently deserving candidate, this exhibition may be awarded at the beginning of the Third Year to a woman candidate who may fail to obtain one of the five regular scholarships offered to Third Year students.

In the award of Third Year scholarships, the Second Year standing of candidates, in the subject selected, is taken into account.

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of students may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

#### REQUIREMENTS IN EACH SUBJECT

##### Greek.

Translation at sight.

Study of the following texts:—Euripides, *Medea*; Plato, *Crito*.

History:—Edmonds' *Greek History for Schools* (Camb. Univ. Press), from the end of the war with Persia to the death of Alexander.

##### Latin.

Prose composition; translation at sight.

Study of the following texts:—Cicero, *De Senectute*; Virgil, *Aeneid* VI; Cicero, *In Catilinam* 1 and 2.

Roman History:—How and Leigh, from the end of the Second Punic War to the death of Cæsar.

##### English and History.

*English*.—Shakespeare, *Hamlet* (ed. Deighton, Macmillan); Milton, *Paradise Lost*, Books I and II, ed. Macmillan (Macmillan); Ruskin,



Sesame and Lilies, Crown of Wild Olive; Arnold, Essays in Criticism, Second Series (Macmillan's Colonial Library).

*History*.—Pepys' Diary, 1659-1666 inclusive; Macaulay's History of England, Chaps. II-X inclusive; Francis Parkman, The Old Régime; G. M. Wrong, A Canadian Manor and its Seigneurs.

#### French.

(a) Translation at sight from French into English, and from English into French; (b) translation of passages from the prescribed texts; (c) questions on the subject matter of the following texts, and the lives of their authors:—Molière: *Le médecin malgré lui* (Heath); Racine: *Andromaque* (Heath); Rostand: *Cyrano de Bergerac* (Holt); Hugo; *Ruy Blas* (Holt); Rudmose-Brown; French short stories (Oxford); Taine: *L'Ancien Régime* (Heath).

The entire examination is held in the French language.

#### German.

(a) Translation at sight from German into English, and from English into German; (b) critical study and translation of the following texts:—Goethe, *Dichtung und Wahrheit*, Books I, II, III (Heath); Schiller, *Das Lied von der Glocke* (Holt), and *Wallenstein's Lager* (Holt); Eichendorff, *Aus dem Leben eines Taugenichts* (Holt); Heine, *Prose Selections*, Faust's edition (Macmillan).

#### Mathematics and Physics.

**CALCULUS**:—Fundamental principles relating to functions, limits and continuity; differentiation and integration of ordinary functions; geometrical applications; maxima and minima; curvature; areas; volumes; length of curves; mean values; approximate integration; Taylor's and MacLaurin's Series.

*Books for reference*:—Murray's Differential and Integral Calculus (or similar text books) and, most especially, Lamb's Infinitesimal Calculus, Chaps. I to VIII inclusive, and Arts. 122, 133, 138, and 183 to 187.

**ANALYTICAL GEOMETRY**:—The analytical treatment of the conic sections.

*Books of reference*:—C. Smith's Conic Sections, Chaps. I to X inclusive, and Arts. 222 to 229 inclusive.

**PHYSICS**:—Sir J. J. Thomson's "Elements of Electricity and Magnetism" (Camb. University Press), and Maxwell's "Matter and Motion" (S.P.C.K.), excluding appendix.



An essay, prepared during the summer, must also be submitted giving an account of an investigation performed during the summer, or written on some topic selected by the student such as radio, meteorology, calorimetry, hydroelectric development, etc.

#### Philosophy.

Locke's Essay Concerning Human Understanding, Book I, and Book II chaps. 1-23; Berkeley's Principles of Human Knowledge, paragraphs 1-33 inclusive, and the Three Dialogues Between Hylas and Philonous; Jevon's Lessons on Logic or Mellone's Text Book of Logic, complete. The selections from Locke and Berkeley in Rand's Modern Classical Philosophers (Houghton Mifflin & Co.) are sufficient to cover the work required in Locke and Berkeley, except the Three Dialogues named.

#### Psychology.

Woodworth, Psychology.

#### Chemistry.

H. I. Schlesinger, General Chemistry (Longmans, Green & Co.).

*Subject of Essay*:—"Aqueous Solution."

#### Biology.

*Animal Biology*.—J. B. S. Haldane and Julian Huxley, Animal Biology (Oxford, Clarendon Press, Toronto).

*Plant Biology*.—The Biology of Flowering Plants by Macgregor Skene (London, Sidgwick and Jackson, Ltd., 1924).

#### MEDALS IN ARTS AND SCIENCE

Medals are available in the final Honours examination for the students who take the highest honours of the first rank in the subjects stated below, and who have passed creditably the ordinary examination for the degree of B.A. or B.Sc., provided they have been recommended therefor to the Corporation by the Faculty, on the report of the examiners:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.



The Shakespeare Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Allan Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her son, the late Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

The Lieutenant-Governor's Silver Medal, to be awarded to the student standing highest in the Final Year Honours in the Department of History.

The Lieutenant-Governor's Bronze Medal, to be awarded to the student standing highest in the Second Year in Latin and Mathematics.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Romance Languages.

If there be no candidate for any medal, or if none of the candidates fulfil the required conditions, the medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

#### PRIZES IN ARTS AND SCIENCE

1. The Neil Stewart Hebrew Prize.—An annual prize of \$15 is open to all undergraduates and graduates of this University, and also to graduates of any other university who are students of theology in some college affiliated to this University. It is awarded on the result of the sessional examination in Hebrew of the Second Year.

2. Early English Text Society's Prize.—This prize is awarded for proficiency in the subjects of the language group in the English honour curriculum of the Third and Fourth Years.

3. New Shakespeare Society's Prize.—This prize, open to graduates and undergraduates, is awarded for a critical knowledge of the following plays of Shakespeare:—Hamlet, Macbeth, Othello, King Lear.

4. Annie Macintosh Prize.—The income of the sum of \$1,145 (\$425 of which was subscribed by the pupils and friends of the late Miss Annie Macintosh, and \$618.97 bequeathed by the late Miss I. G. Mac-



intosh) is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

5. Penhallow Prize.—The income of the sum of \$1,100, collected by the Arts Undergraduates' Society in 1911, is awarded annually as a prize in the Department of Botany.

6. Henry Chapman Prize.—This prize, of the value of \$15, is given in such modern languages as may be taught in the Faculty of Arts and Science, other than English, and Hebrew is also included.

7. The Chester Macnaghten Prize, of the value of \$25 in books, established by the late Russell E. Macnaghten, Esq., M.A., in memory of his late uncle, is awarded annually, through the University Literary and Debating Society, for reading in English.

8. Prizes in Hebrew.—(a) The O. and S. Fitch prize, value \$50.00; (b) the A. J. Freiman prize, value \$100.00; (c) the A. Pierce prize, value \$100.00.

9. The Cherry Prize.—This prize, of the value of \$50.00 in books, founded by Wilbur H. Cherry, Arts 1907, and Anna Cherry, Arts 1918, in memory of their father, William Cherry, Med. 1869, and of their brother, William McFie Cherry, Arts 1911, is awarded annually by the Department of Economics and Political Science to the student who at the end of his Second Year is, in the opinion of the Department, deserving of such recognition, it being understood, however, that the prize will not be awarded to any student who is in receipt of a scholarship in his Third Year.

10. Peterson Memorial Prize in Literature.—This prize, of the value of \$50.00, founded by W. E. Peterson, Esq., of St. Andrew's University, Scotland, in memory of his father, the late Sir William Peterson, Principal of McGill University from 1899–1918, is awarded to the undergraduate, or graduate, student who in addition to having achieved distinction in English Literature has given evidence of creative literary ability.

#### MEDALS AND PRIZES IN MEDICINE

The Holmes Gold Medal, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., one time Dean of the Faculty of Medicine, is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curriculum.



The student who wins the Holmes Medal has the option of exchanging it for a bronze medal and the money equivalent of the gold medal.

**The Wood Gold Medal**, founded by Casey A. Wood, M.D. LL.D., awarded to the student graduating with the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal is not permitted to compete for this medal.

**The Sutherland Gold Medal**, founded in 1878 by the late Mrs. Sutherland, in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Bio-chemistry, together with a creditable examination in the primary branches.

**The Lieutenant Governor's Silver Medal**, to be awarded to the student who obtains the highest marks in General Medicine at the end of the Fifth Year.

**The Lieutenant Governor's Bronze Medal**, to be awarded to the student who obtains the highest standing in the Final Examination in Physiology.

**The Joseph Hils Prize.** (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.).—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

**The Joseph Morley Drake Prize.** (Founded by the late Joseph Morley Drake, M.D.).—A prize in books, to be awarded to the student who obtains the highest number of marks at the Final Examination in Pathology.

**Primary Prize.** A prize in books awarded for the best aggregate standing in the subjects of the first division (Anatomy, Histology, Physiology, Biochemistry).

**The F. Slater Jackson Prize.** An annual prize of \$50.00, founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded on the result of a special examination, written and oral, in Histology and Embryology.

**The Alexander D. Stewart Prize.** An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.



## SCHOLARSHIPS AND PRIZES IN ENGINEERING

### 1. ENTRANCE SCHOLARSHIPS

The following scholarships are open to students entering the Faculty of Engineering:

Two Robert Bruce Bursaries, valued at \$100.00 each. One of these is open to young men and women of promising ability but of straitened circumstances who have qualified for entrance and are taking courses in Arts and Science or Engineering; the other is awarded for high standing in the Matriculation Examination.

The Hon. Robert Jones Scholarship, valued at \$125.00 per annum, granted from time to time to some student in straitened circumstances for the full term of study in the Faculty. (See page 122 for details.)

The Isabella MacRae Scholarship, open to students resident in Maxville, Ont., or failing such for six years, to other Ontario students.

The P. S. Ross, Ottawa Valley Graduates, and Dr. H. M. Ami Exhibitions, valued at \$100.00, \$75.00 and \$50.00 respectively, given through the Ottawa Valley Graduates' Society.

Canadian Pacific Railway Scholarships, covering one year's tuition in Arts and Science and four in Engineering, or five years' tuition in Architecture, open to apprentices and other employees of the company and to minor sons of employees.

Bursaries granted by the Imperial Order of the Daughters of the Empire, of the annual value of \$300.00 each, are tenable for four years at any university and are open to the sons and daughters of deceased or permanently and seriously disabled soldiers and sailors. At least one is available for each Province each year. Information may be obtained from the Provincial Educational Secretary, Office 12, Mount Royal Hotel, Montreal.

H. M. MACKAY MEMORIAL SCHOLARSHIP.—A movement has been started to establish entrance scholarships in the Faculty of Engineering in memory of the late Dean MacKay. One scholarship will be available in October next, and the income for the year will be about \$250.00. The terms of the award and the amount of the scholarship will be announced at the opening of the 1931-32 session.

### II. AWARDED ON THE RESULT OF SPECIAL EXAMINATIONS

1. Two prizes, each of \$10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the Third Year, for proficiency in levelling and transit work.



2. Messrs. Babcock & Wilcox, Limited, offer a scholarship of the value of \$200.00. This Scholarship is open to undergraduates in the Third and Fourth Year courses in Mechanical Engineering who intend to make a special study of steam engineering and is tenable for one year. Should it be awarded to an undergraduate in the Third Year course, it may be re-awarded for a second year at the discretion of the committee making the award. The conditions under which this scholarship is awarded may be ascertained on application to the Dean of the Faculty. The scholarship is open for competition in October, 1931.

3. The Jenkins Bros., Ltd., Scholarship, presented by Messrs. Jenkins Bros., Ltd., and having an annual value of \$200.00, is open to all engineering students entering the Fourth Year. The scholarship is awarded on the basis of academic standing and personality.

### III. AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES

1. A British Association Exhibition of \$50.00 and a prize of \$25.00 at the end of the Third Year, to the students who obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in Strength of Materials and Mechanics of the Third Year.

2. Three prizes of \$25.00, \$15.00 and \$10.00, at the end of the Second Year, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Analytic Geometry, Calculus and Mechanics of the Second Year.

3. Two prizes of books, valued at about \$15.00 and \$10.00 respectively, at the end of the Second Year to the students with the highest and the second highest standing in the course in Engineering Reports.

4. A Scott exhibition of \$50.00, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and two prizes of \$25.00 and \$15.00, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry and Physics of the First Year.

5. A prize of \$50.00, presented by Mr. James L. Tighe, B.A.Sc., for research work in Hydraulics.

6. A prize of \$25.00, presented by Messrs. Anglin-Norcross, Ltd., to the student obtaining the highest marks in Architectural Drawing in the Second Year of the School of Architecture.



7. A prize of \$25.00, presented by Messrs. Anglin-Norcross, Ltd., to the student obtaining the highest marks in Architectural Engineering in the School of Architecture.

8. The Louis Robertson Prize, founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded to the undergraduate student who ranks highest in Design in the Final Year of the School of Architecture.

9. A prize of \$25.00, presented by P. J. Turner, Esq., to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

10. Prizes amounting to \$200.00, given by the Montreal Light, Heat & Power Consolidated to Fourth Year students in the Department of Electrical Engineering.

11. The following prizes are offered for the best summer essays:—  
To the students of the Civil Engineering course, a prize of \$25.00, from a friend.

To the students of the Metallurgical Engineering course, a prize of \$25.00, presented by Milton L. Hersey, Esq., D.Sc.

To the students of the Mechanical Engineering course, a prize of \$25.00, presented by the Crosby Steam Gauge & Valve Co.

To the students of the Mining Engineering course, a prize of \$25.00, presented by Dr. J. B. Porter.

12. There are offered each year by the Engineering Institute of Canada five student prizes of \$25.00 each, for the best paper in each of the branches of engineering—civil, mechanical, electrical, mining and chemical—received from a student member of the Institute. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars may be obtained from R. J. Durley, Secretary, 2050 Mansfield Street, Montreal.

13. The Engineering Institute of Canada also offers each year a prize of \$25.00 which is awarded to the student of the Third Year whose standing in his year, considered in combination with his activities in connection with student Engineering organization, is, in the opinion of the Faculty, most meritorious.

14. Three prizes, one of \$25.00 and the President's gold medal, one of \$15.00 and one of \$10.00, are offered annually for the best papers submitted to the Canadian Institute of Mining and Metallurgy by student members of the Institute.



15. The sum of \$50.00 has been voted by the Undergraduates' Society of the Faculty of Engineering, to be given as prizes for the best summer essays submitted by students. \$25.00 is awarded for the best essay, \$15.00 for the second and \$10.00 for the third.

16. A Sir William Dawson Exhibition, given by the New York Graduates' Society; value, \$60.00.

17. A prize of \$25.00, offered by the Canadian Section of the Society of Chemical Industry, is awarded for the best essay on some important phase of chemical industry. Further particulars may be obtained from the Secretary of the Society.

18. A prize of \$10.00, offered by the Montreal Chapter of the American Society for Steel Treating, to the student graduating in Metallurgical Engineering who obtains the highest mark in the subjects of Metallography and thesis combined.

#### IV. AWARDED AT THE DISCRETION OF THE FACULTY

1. The Hon. Robert Jones Scholarship, having a value of \$125.00 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Engineering."

Application for this scholarship should be made through the Dean of the Faculty of Engineering. In awarding the scholarship the standing of the student in the matriculation examination is considered, and the scholarship is not continued if the standing of the student at any time during his course proves unsatisfactory.

2. The Baylis Scholarship, founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of \$100.00, is awarded to some student who is in need of financial assistance to complete his course on entering the Second Year of the Faculty. The scholarship will be continued during the Third and Fourth Years, if the standing of the student continues to be satisfactory.

Application should be made through the Dean of the Faculty of Engineering.

3. The late Dr. James Douglas, who was a member of the Board of Governors, provided for twelve or more tutorial bursaries in the Faculty of Engineering. In assigning these bursaries account will be taken of the circumstances of the applicants as well as of their academic standing.

These bursaries have a value of \$100.00 per annum, and carry the obligation of giving tutorial instruction equivalent to one evening a week, to the satisfaction of the Faculty Committee. Students in the Third and Fourth Years of Engineering are eligible.



## MEDALS AND LOAN FUNDS IN ENGINEERING

### 1. MEDALS

1. A British Association Medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examination. The British Association Medals were founded by the British Association for the Advancement of Science in commemoration of its meeting held in Montreal in 1884.

2. A gold medal and three prizes are offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see page 121.

3. The Lieutenant-Governor's Silver Medal is awarded to the student ranking highest in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

The Lieutenant-Governor's Bronze Medal is awarded to the student obtaining the second place in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

### 2. LOAN FUNDS

1. A fund has been established by the "Applied Science" Class of 1899, to be known as "The Class of 1899 Fund," for the purpose of aiding each year one or more students who, upon the completion of their Second Year work, require assistance to enable them to finish their course of study. The loans from this fund are repayable after graduation. Applications should be made to the Dean.

2. The George Henry Frost Fund was founded by the late G. H. Frost, B.Sc. '60, for the purpose of aiding students who, when commencing the work of the second or a subsequent year in the Faculty of Engineering, require assistance to enable them to complete their course. Loans from this fund bear interest at three per cent and are repayable within three years after graduation. In making loans from this fund the academic standing of the students is taken into account. Applications should be made to the Dean.

3. The Waddell Fund was founded by J. B. Waddell, Esq. Loans are made from this fund under the same conditions as apply to the George Henry Frost Fund, except that the benefits are available to graduate students as well as to undergraduates.

4. The Canadian Institute of Mining and Metallurgy Loan Fund was founded by the Montreal Women's Auxiliary of that organization for the assistance of Engineering students in Mining, Metallurgy, Geology and allied subjects. Applications for loans from this fund should be made to the Dean.



## PRIZES, SCHOLARSHIPS, AND MEDALS IN LAW

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of \$50.00 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of \$15.00 to the student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of \$50.00, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

Other prizes may be awarded at the discretion of the Governors.

The "Macdonald Travelling Scholarship" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is the income derived from a capital sum of \$20,000, and the scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class who has obtained first or second class honours in the Final Examination.

Women students are not eligible for a Macdonald Scholarship so long as the law excludes them from admission to the Bar in the Province of Quebec.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. It is of the value of \$120, and is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of the Anglo-Saxon or Celtic origin. The next award of this scholarship will be in 1931.

The "Charles Albert Nutting Prize" was founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother Charles Albert Nutting, K.C., B.C.L., who graduated from this faculty in 1872. It is of the value of \$60.00, and is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

Students in the Faculty are eligible for Rhodes Scholarships tenable at the University of Oxford for a term of three years.



The Lieutenant-Governor's Silver Medal will be awarded to the student who stands highest in the Final Examination in Roman Law.

The Lieutenant-Governor's Bronze Medal will be awarded to the student who stands highest in the First Year course in Obligations.

No medals, prizes or scholarships will be awarded, if in the opinion of the Faculty there is no candidate of sufficient merit.

#### MEDALS AND PRIZES IN DENTISTRY

*The F. A. Stevenson Gold Medal.*—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the whole course.

*The Lieut.-Governor's Silver Medal.*—Awarded to the student in the Final Year who stands highest in the practical work done during the year and at the final examinations.

*The Lieut.-Governor's Bronze Medal.*—Awarded to the student obtaining the highest marks, in the Third Year examinations, in Dental Pathology and Dental Therapeutics.

*Final Year Prize.*—A prize in books is awarded to the Final Year student who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the gold medal.

*Third Year Prize.*—Two prizes (first and second), in books, are awarded in the Third Year. The method of determining the winners of these prizes is similar to that adopted in awarding the prizes in the Final Year.

*First and Second Year Prizes.*—A prize in books is awarded to the student obtaining the highest standing at the sessional examinations.

#### MEDALS, SCHOLARSHIPS, AND PRIZES IN COMMERCE

A silver medal and a bronze medal have been offered to the School of Commerce by his Honour, the Lieutenant-Governor of the Province of Quebec, the silver medal for the student with the best average, throughout his four years of study, in Mathematics, Accountancy, Business Organization and Commercial Law; the bronze medal for the one who has the best average, throughout the four years of study, in the French and Spanish languages. The Alliance Française Silver Medal is awarded to the student with the best average throughout the four years of study in the French language.



Two scholarships of \$100 each are offered by Mr. Howard Murray to the best two students in the Third Year class in French. The winners must continue the study of French during their Fourth Year, and it is during this Year that the scholarships will be paid.

The F. W. Sharp Prize in Accountancy and Mathematics will be awarded at the end of the Fourth Year to the best student in Accountancy, Business Organization and Mathematics. Value \$50.00.

The Royal Bank Fellowship in Economics, value \$1,000; open to candidates from all Canadian universities.

#### SCHOLARSHIPS AND MEDALS IN MUSIC

##### SCHOLARSHIPS

(1) PETERSON MEMORIAL SCHOLARSHIPS.—In memory of the late Principal Sir William Peterson, an endowment fund was created in 1921 which provides for two scholarships each of the value of \$175 per annum, awarded annually to students following the course for Mus. Bac. or that for L. Mus., priority being given to the former.

(2) MACDONALD MEMORIAL SCHOLARSHIPS.—Two scholarships of the same value in memory of a former Chancellor of the University, Sir William Macdonald, were founded in 1921 and are awarded under similar conditions.

(3) LINDSAY SCHOLARSHIP.—Mr. C. W. Lindsay donates annually a scholarship of the value of \$175, which is awarded under similar conditions to the above with the proviso that the recipient's chief subject shall be the Pianoforte.

(4) ELLEN BALLON SCHOLARSHIP.—Through the instrumentality of Miss Ellen Ballon, an ex-student of the Conservatorium of Music, a fund has been created amounting to \$1,501.87 to provide a scholarship in the Faculty of Music of the value of \$200 per year until principal and interest are exhausted.

(5) CONSERVATORIUM BURSARIES.—Several bursaries of the value of \$75 and \$50 are annually granted to deserving students who are debarred for one reason or another from the foregoing scholarships.

##### MEDALS

1. The Lieutenant-Governor's Silver Medal for the highest standing in the Senior Year.

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NOTE:—The maximum that a student will pay for repeating all Commercial Law (Final) Examinations will be \$15.00.



2. The Lieutenant-Governor's Bronze Medal for the highest standing in the Junior Year.

#### MEDALS AND PRIZES IN THE SCHOOL OF PHYSICAL EDUCATION

See page 551.

#### SCHOLARSHIPS, MEDALS AND PRIZES IN THE SCHOOL FOR GRADUATE NURSES

See page 571.

#### SCHOLARSHIPS AND PRIZES IN THE LIBRARY SCHOOL

See page 597.

#### THE RHODES SCHOLARSHIPS

A Rhodes Scholarship is tenable at the University of Oxford and may be held for two years. Appointments are made for two years in the first instance, and a Rhodes Scholar who may wish to remain for a third year will be expected to present a definite plan of study for that period satisfactory to his College and the Rhodes Trustees.

Rhodes Scholars may be allowed, if the conditions are approved by their own College and by the Oxford Secretary to the Rhodes Trustees, either to postpone their third year, returning to Oxford for it after a period of work in their own countries, or may spend their third year in post-graduate work at any University of Great Britain, and in special cases at any university on the continent of Europe, the overseas dominions, or in the United States, but not in the country of their origin.

The stipend of a Rhodes Scholar is fixed at £400 per year. At most colleges, and for most men, this sum is not sufficient to meet a Rhodes Scholar's necessary expenses for Term-time and Vacations, and scholars who can afford to supplement it by say £50 per year from their own resources will find it advantageous to do so.

The Rhodes Scholarship is open equally to students in all faculties. A candidate to be eligible must:

1. Be a British subject, unmarried, with at least five years' domicile in Canada. He must have passed his nineteenth year, but not have passed his twenty-fifth birthday on October 1st of the year for which he is elected;



2. Have reached such a stage in his course at one of the universities of Canada that he will have completed at least two years at the university in question by October 1st of the year *for* which he is elected.

Candidates may apply either for the province in which they have their ordinary private domicile, home or residence, or for any province in which they have received at least two years of their college education before applying. Full particulars can be obtained from Gilbert S. Stairs, Esq., K.C., 132 St. James Street W., Montreal, Secretary of the Selection Committee for the Province of Quebec.

Two Scholarships may be awarded annually in the Provinces of Quebec and Ontario, if qualified candidates appear.

Each candidate for a Scholarship is required to make application to the Secretary of the Committee of Selection of the province in which he wishes to compete *not later than October 31st*. Application forms may be obtained from the Registrar's Office.

#### THE 1851 EXHIBITIONS

SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of the value of at least £250 sterling a year, are tenable for two, or, in rare instances three years. They are limited, according to the Report of the Commission, "to those branches of science, the extension of which is especially important to our national industries." The holder will be required to devote himself to research in some branch of pure or applied science, and the particular nature of the work proposed must be approved by the Commissioners.

They are open to students of not less than three years' standing who have shown evidence of capacity for original research and are tenable at any institution approved by the Commission.

Three of these Scholarships are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain Universities, among which McGill is included.

#### SCHOLARSHIPS AND FELLOWSHIPS FOR GRADUATES

(1) OPEN TO MCGILL GRADUATES ONLY AND AVAILABLE AT MCGILL UNIVERSITY AND ELSEWHERE

1. THE MCGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—This scholarship has been founded by the McGill Chapter of the Delta Upsilon Fraternity to perpetuate the memory of the members of that Chapter who gave their lives in the Great War.



It is open to all graduates of the University, and the following considerations will govern the award:—(a) the general scholarship of the candidate; (b) his need of financial assistance for further study; (c) the general usefulness to the community of the special branch of study he proposes to follow; (d) the likelihood that the candidate will reflect credit on the University.

The present value of the scholarship is about \$950.

This scholarship will be paid in three instalments, in October, January and April, about the 20th of each of these months, but the second and third instalments will be paid only on receipt of a satisfactory report from the professor or professors under whom the scholar is carrying on his work.

2. THE ALLEN OLIVER FELLOWSHIP.—This scholarship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A.,\* Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The scholarship will be awarded annually to the student who stands highest in first class honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science in McGill University or elsewhere. The present value of the scholarship is about \$650.

3. THE LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—This fellowship was established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the Battle of Passchendaele, in October, 1917. It will be annually awarded to a worthy student who desires to proceed to post-graduate studies in Geology at McGill University. The recipient of this award may be called upon to assist in the teaching work of the Department. This Fellowship is awarded by the head of the Department of Geology and Mineralogy in consultation with the Principal. It is of the annual value of \$700.

4. THE DR. T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY.—This scholarship of the value of \$1,000 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc. or Ph.D. and have shown high capacity for research.

5. THE MOYSE TRAVELLING SCHOLARSHIPS.—Two scholarships of the value of \$1,500 each, known as The Moyse Travelling Scholarships, tenable for one year, have been founded by Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E.

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\* Lieut. Oliver was an honour graduate in 1915 in the Department of Economics and Political Science.



Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are awarded by the Faculty of Arts and Science, one for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these divisions is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities.

Applications are to be made to the Dean of the Faculty of Arts and Science, before the first of April each year.

6. MONTREAL MANUFACTURERS' GRADUATE FELLOWSHIP.—This fellowship, of the annual value of \$800.00, has been established by the Montreal Branch of the Canadian Manufacturers' Association. It is awarded annually to a member of the graduating class in honours in Economics and Political Science selected by the head of the department. The student receiving the Fellowship must pursue his graduate studies for the M.A. degree in the department and take as the special subject of his investigation one dealing with Canadian trade or industry approved by the head of the department and by the Chairman of the Montreal Branch of the Canadian Manufacturers' Association.

7. THE GRADUATE (WORKING) FELLOWSHIP; \$800 a year. The holder of this fellowship is required to devote one-third of his time to the work of the University in the correction of junior exercises, etc., in the Department of Economics and Political Science.

8. Three research and teaching fellowships of the value of \$750.00 each have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, one endowed by the late Dr. James Douglas, and a third, of a slightly less value, supported by graduates in Mining in the name of the late Dr. B. J. Harrington. All three fellowships are awarded annually if suitable candidates offer.

9. A research and teaching fellowship of the value of \$80.00 per month during the University session is offered to students graduating in the Metallurgical Department. The student holding this fellowship is expected to devote two-thirds of his time to research and study for the M.Sc. degree, and one-third to teaching and other work for the Department.

10. THE HUGH McLENNAN MEMORIAL SCHOLARSHIP.—A scholarship established by Hon. John Stewart McLennan and Dr. Francis and Miss Isabelle McLennan in memory of the late Hugh McLennan, son of the Hon. John Stewart McLennan, who was killed at the Battle of



Ypres in 1915. This scholarship is of the value of about \$1,000 and is awarded annually to the student who during his course in Architecture has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

11. THE JAMES DOUGLAS STUDENTSHIP.—A studentship in pathology, given by the late Dr. James Douglas, open to McGill graduates only, tenable for six years and of the value of \$1,250 for the first year, increasing to \$2,500.

12. THE "MACDONALD TRAVELLING SCHOLARSHIP IN LAW" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is the income derived from a capital sum of \$20,000, and the scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class who has obtained first or second class honours in the Final Examination.

Women students are not eligible for a Macdonald Scholarship so long as the law excludes them from admission to the Bar in the Province of Quebec.

14. MACDONALD COLLEGE AGRICULTURAL ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP.—In memory of graduates and undergraduates of the Faculty of Agriculture who died on service during the Great War, 1914-1918. It has a value of about \$200 and is available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work, in any branch pertaining to agriculture at any college or university of a recognized standing. Application for this scholarship should be addressed to:—Mr. Emile A. Lods, General Secretary, Macdonald College, P.Q.

15. QUEBEC MINISTER OF AGRICULTURE GRADUATE SCHOLARSHIP.—The Minister of Agriculture of the Province of Quebec offers a scholarship for the session 1930-31 to graduates of the School of Agriculture, Macdonald College (McGill University); of the value of \$500 for graduate work at Macdonald College. The holder of this scholarship must be a resident of the Province of Quebec. It is awarded by the Minister on the recommendation of the School of Agriculture.

16. STUDENT TEACHERS SCHOLARSHIP.—An arrangement has been made between the National Committee for the Training of Teachers, in Scotland and McGill University, for the reciprocal exchange of student teachers.



Students going from McGill must be Bachelors of Arts, or Bachelors of Science in Arts, or Masters of Arts.

They are assisted for one year and in special cases for two. The allowance will be \$1,500 per annum.

They are expected either to study for a higher degree or to make a detailed study of Scottish educational systems. In the latter case, only one year's studentship is allowed.

A student teacher, holding an M.A. degree from McGill, may be able to obtain a Scottish Ph.D. in two years.

Applications must be sent to the Principal before May 1st. These must state:—(a) University qualifications; (b) Teaching experience; (c) Any general experience; (d) Whether the student proposes to study for a higher degree and, if so, for what degree, and whether or not he requires one or two years' assistance.

(2) OPEN TO MCGILL GRADUATES AND OTHERS AND AVAILABLE AT MCGILL UNIVERSITY OR ELSEWHERE

1. POST-GRADUATE SCHOLARSHIPS GRANTED BY THE IMPERIAL ORDER OF THE DAUGHTERS OF THE EMPIRE.—Nine are offered annually—one for each province. They are of the value of \$1,400, and have been founded "to enable students to carry on studies at any university in the United Kingdom, in British and Imperial history, the economics and government of the Empire and Dominion, or any subject vital to the interests of the Empire."

Full details may be obtained from the Secretary of the National Chapter of Canada, 238 Bloor Street East, Toronto, 5, Ont.

2. UNIVERSITY WOMEN'S FEDERATION SCHOLARSHIP.—The Scholarship of the Canadian Federation of University Women, of the value of \$1,250, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference is given to those candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

The choice of the University at which the successful candidate will pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convener of the Scholarship Committee, Mrs. Douglas Thom, 2220 College Street, Regina, Sask.

Applications must be received not later than February 1st.



3. THE PROVINCE OF QUEBEC SCHOLARSHIPS.—Fifteen scholarships are granted annually by the Government of the Province of Quebec to men graduates of a Provincial University desirous of completing their studies in Europe.

Candidates are required to make application to the Principal. Applications must be approved by the Dean of the Faculty to which the candidate belongs or from which he has graduated, and may be supported by other recommendations. Candidates must be Canadians, bona fide residents of the Province of Quebec and not over twenty-five years of age. The Government of the Province does not necessarily accept all the candidates recommended by the University.

The scholarships are each of the value of \$1,200 per annum. They are awarded in the first instance for one year, but their tenure may be extended to three years if the work of the holder is satisfactory.

Two or three of these are usually awarded to graduates of McGill University.

4. RESEARCH SCHOLARSHIP IN CANADIAN HISTORY.—The Scholarship of \$2,000, offered by the Women's Canadian Club of Montreal for research study in Canadian History, is open to graduates of McGill. Applicants must be prepared to spend two years of study under the terms of the Scholarship and the stipend is paid in half-yearly instalments of \$500.00 each. Applications should be forwarded to the President of the Women's Canadian Club, 772 Sherbrooke St. West, Montreal.

5. THE JOHN BONSALE PORTER SCHOLARSHIP.—This scholarship, of the value of about \$500, founded by Dr. W. W. Colpitts, is open to graduate students proceeding to the degree of M.Sc. in Civil Engineering. Applications, which in the case of graduates of other universities must be accompanied by duly certified statements of academic standing and letters of recommendation, should be in the hands of the Dean of the Faculty of Engineering not later than June 15th.

6. THE A. A. BROWNE MEMORIAL FELLOWSHIP.—The sum of \$10,000 was received by the Medical Faculty from the committee of the A. A. Browne Memorial Fund. With this sum a fellowship has been established, to be known as the "A. A. Browne Memorial Fellowship." This fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynecology.

7. THE JAMES DOUGLAS RESEARCH FELLOWSHIP.—The sum of \$25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.



8. THE JAMES COOPER FELLOWSHIPS FOR THE STUDY OF INTERNAL MEDICINE.—This fund of \$60,000 was bequeathed in 1912 by the late James Cooper of Montreal to promote study and research in Internal Medicine.

9. THE JOHN MCCRAE FELLOWSHIP.—A fellowship of approximately \$600, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established as a permanent fellowship in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company.

10. THE JOHN W. FLINN RESEARCH FELLOWSHIP.—In 1921 Dr. John W. Flinn, of Prescott, Arizona, gave the sum of \$5,000, to be paid in five equal annual instalments of \$1,000, this sum to be used for the assistance of medical research in tuberculosis.

11. THE HIRAM N. VINEBERG FELLOWSHIP in Gynæcology, of the value of \$250.00 per annum, donated in 1924 by Dr. Hiram N. Vineberg, of New York, a graduate of McGill University, 1878.

12. THE J. W. MCCONNELL SCHOLARSHIP.—The sum of \$1,000.00 was donated to the Department of Surgery for purposes of research for the year 1925-26. This was renewed each year and in 1928 was increased in value to \$1,500. It will be again available for the session 1931-32.

13. THE CLARA LAW FELLOWSHIP, founded in 1927 by Mrs. J. R. Fraser for the furtherance of research in the laboratory of the Department of Obstetrics and Gynæcology, is of the value of \$1,200 per annum.

15. SCHOLARSHIPS AWARDED BY THE NATIONAL RESEARCH COUNCIL:

- (a) *The Ramsay Memorial Fellowship*, tenable in Great Britain and of the value of \$1,750, open to applicants who have given distinct evidence of a high capacity for independent research in the science of chemistry. The winner of this Fellowship is eligible for re-appointment for a second year.
- (b) *Fellowships* of the value of \$1,200, open to applicants who have given distinct evidence of capacity to conduct independent research in science.
- (c) *Studentships* of the value of \$1,000, open to applicants who have already done some original graduate research in science.
- (d) *Bursaries* of the value of \$750, open to applicants who have graduated with high distinction in scientific study.



Application must be made not later than March 15th. Blanks and circulars containing full information may be obtained from the Registrar of the University.

#### EXCHANGE STUDENTSHIP

**STUDENT TEACHERS SCHOLARSHIP.**—An arrangement has been made between the National Committee for the Training of Teachers in Scotland, and McGill University, for the reciprocal exchange of student teachers.

The students coming to McGill will be Honour Graduates in Arts or Science and probably also in Education. They may make a special study of Education or may take up any course leading to the degree of M.A., M.Sc., or Ph.D. If they study for a higher degree, the period and conditions of study will be fixed by the Faculty of Graduate Studies and Research on the recommendation of the Head of the Department in which the work is to be carried on. They will be assisted for one year and possibly for two. Students who study Education will be called upon to furnish a detailed report on their work, in which case only one year's studentship will be allowed. Details of the teaching work will be arranged by the Dean of the School for Teachers.

The value of the Scholarship is \$1,500.

Applications should be made to the Principal.

#### SCHOLARSHIPS IN MEDICINE

**The Walter J. Hoare Memorial Scholarship.**—A sum of money has been donated by Dr. Charles W. Hoare, a graduate of McGill University, as a Scholarship in Medicine, in memory of his son, Walter J. Hoare, who was killed in the Great War. This Scholarship is open to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine.

**Six scholarships for Canadian students,** four donated in 1927, by Mrs. R. MacDougall Paterson, Mrs. Charles Meredith, Mrs. C. F. Martin and Louis Colwell, Esq., three in 1928 by C. W. Lindsay, Esq., A. B. Purvis, Esq., and one by an anonymous donor and friend of the Medical Faculty. These scholarships are valued at \$400.00 each per annum, and extend over the five years of the course. The conditions pertaining to these scholarships may be had on application to the Dean or Secretary of the Faculty of Medicine.

**The Dr. J. Francis Williams Scholarship** of \$500.00, founded by the late J. Francis Williams, M.D., to be awarded to the student of the Final Year who obtains the highest standing in Medicine and Clinical Medicine.

(See also page 133.)



## FEES

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### GENERAL FEES

#### V. MATRICULATION EXAMINATION FEES

For the Junior Matriculation Examination, one dollar per paper, with a maximum of ten dollars and a minimum of two.

For the Senior Matriculation Examination, two dollars per paper, with a maximum of fifteen dollars and a minimum of three.

When the fees from a local centre do not cover the cost of invigilation the extra amount to be paid by each candidate on this account will be determined by the Registrar's Office.

#### II. SUPPLEMENTAL EXAMINATION FEES

For a regular Supplemental Examination .....	\$ 5.00
For a subsequent Supplemental Examination in the same subject .....	10.00
For a special Supplemental Examination .....	10.00

Fees for supplemental examinations must be paid at the Bursar's office and the receipt shown to the Dean's Office before the examination.

#### III. STUDENT ACTIVITIES FEE

For the support of certain undergraduate organizations and for admission to the skating rinks and tennis courts during the session and to all home games under the control of the Athletic Board.

For Men Undergraduates .....	\$17.00
For Women Undergraduates .....	11.00

Partial students who pay the above fees will have the same privileges as Undergraduates in this respect.

#### IV. CERTIFICATE FEES

For valuation and registration of Certificates which exempt the holder from the greater part of the Junior Matriculation Examination .....	\$ 5.00
For a duplicate diploma .....	10.00

#### V. LATE REGISTRATION FEE

Students of all years above the First who register after the official registration days must pay a late registration fee:

For registration during the first week of the Session.....	\$ 5.00
For registration during the second week of the Session.....	10.00



## VI. DIPLOMA FEES

Graduation Fee for a Master's Degree.....	\$20.00
“ “ “ the Degree of Ph.D. ....	30.00
“ “ “ “ “ D.Litt., D.C.L. or D.Sc. .	80.00
Graduation Fee for the Degree of Mus. Doc. ....	100.00

The graduation fee (which covers the charges for examination) is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. **No thesis can be accepted unless it is accompanied by a receipt from the Bursar for this fee.** If, however, a candidate for the degree of M.A., M.Sc., or M.S.A. fails, he may present himself for the examination in a subsequent year without further payment of fees. A candidate for the degree of Ph.D., D.Sc. or D.Litt., in case of failure, may present himself once again, in a subsequent year, upon payment of an additional sum amounting to one-half of the usual fee for this degree.

Fee for a Degree conferred in absence, unless the candidate is excused therefrom by the Faculty concerned..... \$20.00

## VII. CAUTION MONEY

Every student in the Faculties of Arts and Science, Engineering, Medicine and Dentistry and the Schools of Architecture and Commerce is required to deposit at the time of payment of fees the sum of \$10.00 to cover damages done to furniture, apparatus, books, etc. This amount less deductions (if any) will be returned at the close of the session. In the Faculty of Law and the diploma-granting Schools the sum to be deposited is \$5.00.

## REGULATIONS CONCERNING THE PAYMENT OF SESSIONAL FEES

1. Fees are due and payable at the Bursar's Office as follows:—

Students in Medicine .....	Tuesday, September 22nd
	Wednesday, September 23rd
	Thursday, September 24th
Students in Dentistry .....	Friday, September 25th
Students in Arts and Science (Commerce excepted)	
Women .....	Thursday, October 1st
	Friday, October 2nd
Men .....	Monday, October 5th
	Tuesday, October 6th
	Wednesday, October 7th



Students in Commerce .....	Thursday, October 8th
	Friday, October 9th
Students in Engineering .....	Monday, October 12th
	Tuesday, October 13th
Students in Law .....	Wednesday, October 14th
Students in the Schools of Physical Education, Graduate Nurses, Social Workers, Library Administration, and all other Schools and Departments.	} Thursday, October 15th

Students who pay by instalments are required to pay the second instalment on or before February 1st.

2. After the periods for payment stated above an additional fee of \$2.00 is exacted of all students in default.

3. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of regulation 2.

4. Immediately after October 10th in the case of students in Medicine and Dentistry, and October 20th (in the case of all others), or February 5th (when the fee is paid in instalments), a list of the registered students who have not paid their fees is sent to the Deans of the several Faculties, or the Heads of Schools, as the case may be, on receipt of which the Dean, or Head, causes their names to be struck from the registers of attendance, and such students cannot be readmitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

#### FEES IN ARTS AND SCIENCE

Sessional fee for the undergraduate course..... \$150.00

(For caution money, athletic fees, etc., see below.)

By instalments:—

First instalment, if paid before October 16th.....	77.00
Second instalment, if paid before February 5th.....	77.00

Graduates in Arts and Science of this University are allowed, on payment of one-half of the usual fees, to attend all lectures in the undergraduate course for the degree of Bachelor of Arts or Bachelor of Science, as the case may be, except those for which a special fee is exigible. Graduates of other universities attending full courses in affiliated theological colleges are allowed the like privilege.



**Fees for Limited Undergraduates.**

In the First and Second Years the fees are \$30.00 per course; in the Third and Fourth Years \$38.00 per course.

**Fees for Partial Students.**

The fees for partial students are: \$4.00 for library, \$3.00 for athletics and athletic grounds, and a fee at the rate of \$11.00 for an hour a week of instruction during the academic year for courses in the First and Second Years and \$14.00 per hour for Third and Fourth Year courses, but the maximum fee shall in no case exceed the full undergraduate fee.

**Fees for Laboratory Courses.**

\$5.00 per hour per week of instruction for the academic year, but the maximum fee shall not exceed \$30.00 for any one course nor \$60.00 for any one student. This fee will cover laboratory materials, reagents, the use of instruments, and ordinary wear and tear of instruments and apparatus, but it will not cover losses through waste, neglect or breakage. The charges under this head will be deducted from the students' caution money at the end of the session.

For other fees in Arts and Science, see under "General Fees," p. 136.

**FEES IN COMMERCE**

Sessional fee for the undergraduate course..... \$175.00  
(This includes fees for library, athletics and graduation.)

By instalments:—

First instalment, payable before October 15th..... 90.00

Second instalment, payable before February 1st..... 90.00

Any Arts students transferring to Second Year Commerce must pay a fee of \$175.00 for that year.

**Fees for Limited Undergraduates.**

In the First Year the fees shall be \$30.00 per course; in the Second, Third and Fourth Years, \$35.00 per course.

**Fees for Partial Students.**

\$4.00 for library, \$3.00 for athletics and athletic grounds and a fee at the rate of \$13.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

**Other Fees in Commerce.**

See under "General Fees," page 136.



## FEES IN ENGINEERING

Sessional fee for the undergraduate course..... \$205.00

By instalments:—

First instalment, if paid before October 13th..... 105.00  
 Second instalment, if paid on or before February 1st..... 105.00

Students taking the summer schools in May and September are required to pay the sum of \$35.00, which includes the Caution Money Deposit. This will be placed to their credit on the fee for the following session.

Graduates of this Faculty taking an additional undergraduate course will pay one-half of the undergraduate fee for that course.

The fees for partial students are:—\$4.00 for library, \$3.00 for athletics and athletic grounds, \$1.00 for the Undergraduates' Society, and a fee at the rate of \$7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

For time for payment and other fees, see under "General Fees," pages 136 to 138.

## FEES IN MEDICINE

All students must register with the University Registrar before paying their fees.

Sessional fee ..... \$250.00

By instalments:

First instalment, if paid before September 25th..... \$127.50  
 Second instalment, if paid before February 1st..... 127.50

Students repeating the course of study of any academic session are not required to pay full fees. A fee of one hundred dollars will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc.

Students taking out extra dissecting material will be charged at the rate of \$10.00 for a half session and \$20.00 for a whole session.

An *ad eundem* fee of \$10.00 is charged students entering from another university in any Year above the First.

The fee for the graduate course in Public Health, including laboratory fee, the fee for outdoor work and the diploma fee, is \$100.00.

For time for payment and other fees, see under "General Fees," page 136.



## MICROSCOPES

Each student is required to provide himself, on beginning his studies, with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine.

Should the student not be provided with such a microscope, he may purchase a new guaranteed instrument through the Bursar's office of the University for the sum of \$105.00 or on the deferred payment plan, by which payment is spread over five years, as follows:—First year, \$32.00; second year, \$25.00; third year, \$22.00; fourth year, \$20.00; fifth year, \$16.00.

## FEES IN LAW

The sessional fee of \$205.00 is payable to the Bursar on October 15th, but it may also be paid before October 1st. Students who prefer to do so may pay the fee in two instalments of \$105.00 each, the second of which is due on the 1st of February. Students who had been in attendance prior to the session 1929–30 will be permitted to finish their course at the rate of fees at which they began, viz. \$155 for the session.

For Athletic Fees for Men Students, see page 136.

Women students pay an additional fee of \$6.00 for the use of the skating rinks and tennis courts during the Session, and for admission to the home games under the control of the Athletic Board; \$1.50 for the McGill Daily and \$2.50 for the McGill Women Students' Society, which includes all Royal Victoria College Societies. Membership in this Society is also open to women students taking partial courses on payment of the regular fee.

Partial students will pay a fee calculated at the rate of \$9.00 for an hour per week of instruction for one half-session, and \$3.00 for athletics and the use of athletic grounds.

For time for payment and "General Fees," see page 136.

## FEES IN DENTISTRY

Sessional fee ..... \$210.00

By instalments:—

First instalment, if paid by 30th September.... \$107.50  
Second instalment, if paid by 1st February.... 107.50



Athletics and Societies.....	17.00
Rental of Dental Cabinet.....	10.00
Caution Money (deposit).....	10.00
	<hr/>
	\$247.00

The fee of \$20.00 is exacted when the degree of D.D.S. is conferred in absentia.

### INSTRUMENTS

With the exception of extracting instruments, lathes, and vulcanizers, each student is required to furnish his own instruments, and appliances for both laboratory and operating room, and is not permitted to enter the Course until he is thus supplied.

The approximate cost of instruments and supplies for the First and Second Years is \$300.00, which includes an Anatomical Articulator, and an Engine.

Third Year approximate cost.....	\$100.00
Fourth Year approximate cost.....	75.00

All of these instruments and this equipment will be required for office use when the student enters practice and should be regarded as an investment for that purpose rather than a university expense.

The cost of instruments and material for First Year students is at least \$150.00 and for Second Year students \$350.00. These instruments are practically all that will be needed in an ordinary dental practice.

Partial students will be admitted to one or more courses on payment of special fees.

Students of this University repeating the course of study of any academic session are not required to pay full fees. A fee of one-half the regular fee will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc. Students repeating the Third or Fourth Year will be required to pay in addition a Hospital Fee of \$25.00.

A list of the above instruments may be secured at the Dean's Office, and arrangements have been made with local Dental Supply Houses in order that the student may benefit by a special trade discount.

An "*ad eundem*" fee of \$10.00 will be charged students entering from another university in the Second, Third or Fourth Year of the course.

For dates of payment and other fees, see under "General Fees" page 136.



## FEES IN THE CONSERVATORIUM OF MUSIC

The fees are as follows:—

Regular Students. \$225.00 a year payable at the beginning of the session (not later than October 1st) or in two instalments of \$115.00 each, payable before October 1st and February 1st, respectively. This sum also covers the fees for the Diploma or Degree Examination at the end of the year, as well as fees to Students' Societies, and charges for Physical Education—which is compulsory.

Partial Students. \$50.00 to \$60.00 (according to instructor selected) per term of eleven weeks. Students paying in full for three terms of eleven weeks each are allowed to take the examination for a Certificate at the end of the year without any further fee.

Class Students. Fees vary between \$5.00 and \$25.00 per term, according to class. Precise information can be obtained on this point from the Secretary.

The fees for examinations for Certificates, when not included in the term fees as above mentioned, are the same as the fees for the Local Examinations. See page 466.

**In all cases fees must be paid strictly in advance at the office of the Conservatorium.**

No individual or class lessons will be given to any student who is unable to produce a receipt showing that the necessary fees have been paid.

## FEES FOR DIPLOMA AND DEGREE EXAMINATIONS

DIPLOMA OF LICENTIATE (L. Mus.)—Fees for examination, \$45.00, of which \$15.00 is payable at each examination. Diploma fee, \$5.00.

DEGREE OF BACHELOR OF MUSIC (Mus. Bac.)—Matriculation fee, \$10.00. See page 136. Fees for examinations payable as follows:—First examination in Music, \$20.00. Second examination in Music, \$20.00. Final examination in Music, \$20.00. Graduating fee, \$20.00.

Although under special conditions exemptions from certain examinations for the Diploma of Licentiate and Degree of Bachelor of Music may be allowed, there is no exemption from the *fees* given above, except in the case of candidates holding McGill Local Centre Certificates.

DEGREE OF DOCTOR OF MUSIC (Mus. Doc.)—Fee \$100.00, one-half of which (\$50.00) is paid when submitting exercise and the balance (\$50.00) before the final examination.



N.B.—Candidates examined in theoretical subjects connected with the above Degrees and Diplomas at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

For General Fees, see page 136.



## FEES IN THE FACULTY OF GRADUATE STUDIES

## TUITION FEES

N.B.—It is necessary to register and fill in three application forms every year. Application forms reaching the Dean's Office after October 8th must be accompanied by a cheque of \$10.00 to McGill University for late application.

For each preliminary or qualifying year (if any).....	\$70.00
For each year of lecture courses or laboratory leading to the Degree of Master .....	70.00
For each year of residence leading to the Degree of Ph.D.....	70.00
Registration fee for every year other than the above until the thesis is completed .....	5.00
Partial Students, lectures \$14.00 per session hour, laboratory \$5.00 per session hour, and Library fee \$4.00.	

## GRADUATION FEES

Graduation fee for M.A., M.Sc., M.Eng. or M.Com.....	\$20.00
Graduation fee for Ph.D. ....	35.00
Graduation fee for D.Litt. ....	80.00
Graduation fee for the Degree of D.C.L. ....	80.00
Graduation fee for the Degree of D.Sc. ....	80.00
Graduation fee for the Degree of Mus. Doc. ....	100.00
Fee for a degree conferred <i>in absentia</i> .....	20.00

Students taking the advanced Summer course in French will be remitted \$20.00 from the fee for M.A. for each Summer course. Students who have taken four Summer courses in French are excused *in absentia* fees.

Every student in Chemistry is required to deposit with the Bursar the sum of \$20.00 as Caution money to cover 10% of the cost of all chemicals and other supplies used by the student and damages done to furniture, apparatus, books, etc. This amount, less deductions, will be returned at the close of the session.

All fees for courses of instruction are payable on registration.

There is no fee for the degree of LL.D. or M.A. when granted *honoris causa*.

All Graduate Students must pay fees as above, including Lecturers, Tutors, and Demonstrators, but their salaries will be augmented by \$70.00 a year so long as they are paying fees of that amount for Graduate Studies.



The graduation fee (which covers the charges for examination) is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. **No thesis can be accepted unless it is accompanied by a receipt from the Bursar for this fee.** If, however, a candidate for the degree of M.A., M.Sc., M.Eng., or M.Com. fails, he may present himself for the examination in a subsequent year without further payment of fees. A candidate for the degree of Ph.D., D.Sc. or D.Litt., in case of failure, may present himself once again, in a subsequent year, upon payment of an additional sum amounting to one-half of the usual fee for this degree.

FEES IN THE SCHOOLS OF PHYSICAL EDUCATION, GRADUATE  
NURSES AND LIBRARY ADMINISTRATION

See pages 550, 573, 597.



## STUDENTS' EXPENSES

### 1. Board and Residence

#### *For Men.*

No college residences have as yet been built for men students, but dormitory accommodation for about sixty is provided in Strathcona Hall, the home of the Student Christian Association of McGill University. Full particulars may be obtained from the Secretary of the Association, 772 Sherbrooke Street West, Montreal, who will also make arrangements to have students who are strangers to Montreal met on arrival and helped to secure lodgings, if due notice is sent of the station and time of arrival.

Before the opening of the session each year a list of Approved Lodgings, which have been inspected by a representative of the University, is issued by the Lodgings Committee. This list, which gives details of rooms, meals, prices, etc., may be consulted in the Registrar's Office, the Students' Union, Strathcona Hall, and other University Buildings. The list is not sent by mail.

Board and lodging for men may also be obtained in the Diocesan College, the United Theological College, and the Presbyterian College, which are theological colleges affiliated with the University.

Board is furnished in the McGill Union at low rates. The dining room accommodates over 120 students, whilst there is also a lunch counter where meals are served *à la carte*.

The cost of board and lodging in approved rooms varies from \$45 to \$60 per month. Separately good board costs from \$30, and a room from \$20 upwards per month.

#### *For Women.*

See Royal Victoria College, page 237.

### 2. Approximate Total Cost Per Year

#### Faculty of Arts and Science (Men)

In all years the session extends approximately from October 1st to May 15th. At the end of their final year students usually remain for Convocation, which takes place about the 29th of May.

	Minimum	Moderate
Tuition Fees .....	\$150	\$150
Athletics, Union, etc. ....	17	17
Board and lodging .....	385	475
Books, apparatus and Laboratory Fees .....	38	43
Total .....	\$590	\$685



**Faculty of Engineering.**

(In all Years except the last the session extends from October 1st to May 1st with, as a rule, two or three summer schools of from three to four weeks' duration—Course, four years, with a preparatory year in the Faculty of Arts and Science or Senior Matriculation.)

	Minimum	Moderate
Tuition Fees .....	\$205	\$205
Fee for Athletics, Union, etc.....	17	17
Board and Lodging .....	375	450
Books and Instruments .....	43	53
	<hr/> \$640	<hr/> \$725

The sum of from \$60.00 to \$75.00 per year will also have to be reckoned on as extra expenditure in connection with the summer schools.

**Faculty of Medicine.**

(In all Years except the last the session extends from about September 16th to May 20th. Course, five years, preceded by at least two pre-medical years in the Faculty of Arts and Science.

	Minimum	Moderate
Tuition Fees .....	\$250	\$250
Fee for Athletics, Union, etc. ....	17	17
Board and Lodging .....	400	500
Books, Instruments, etc. ....	153	173
	<hr/> \$820	<hr/> \$940

Undergraduates in Arts and Science residing in affiliated theological colleges, with a view to a course in theology, are able to obtain board and lodging for less than the minimum shown above, and in all Faculties the expense under the head of 'Books and Instruments' can be reduced by purchasing these at second-hand.

It will be noticed that in the above estimate no account is taken of personal expenses, such as cost of clothes, laundry, etc., nor yet of the caution money deposit which is made by each student at the commencement of the session. This amounts to \$5.00 in the Faculty of Law and \$10.00 in the Faculties of Arts and Science, Medicine and Engineering. It would be well also to reckon on at least \$0.00 to \$25.00 per annum for subscriptions of various kinds.



## MORALS AND DISCIPLINE

1. University discipline is exercised by the several Faculties, and by the Committee on Morals and Discipline, subject in the cases mentioned below to revision or confirmation by Corporation.

2. Subject to the provisions of the following section, each Faculty is entitled to exercise University discipline over its own students.

3. All cases of discipline involving the interests of more than one Faculty, or of the University in general, are dealt with by a standing Committee of Corporation, known as the Committee on Morals and Discipline. The Committee has power to summon as assessors the President and Vice-President of the Students' Council.

4. All cases of discipline referred to in sub-section 3 are reported to the Principal, or, in his absence, to the Vice-Principal, or, in the absence of both, to the senior Dean present in the city. If the Principal, or, as the case may be, the Vice-Principal or the Dean, deems action necessary, the matter is reported to the Committee on Morals and Discipline. Corporation also has the power to report such matters to the said Committee.

5. When sentence of expulsion, or of suspension for more than three months, has been pronounced or recommended by a faculty, or by the Committee on Morals and Discipline, the Corporation may entertain an appeal, which is final.

6. "University discipline" means any appropriate method of exercising authority over students, and, without prejudice to the foregoing generality, includes the power of expulsion, suspension, disqualifying from competing for scholarships, exhibitions, medals, prizes or honours, imposing fines, not exceeding \$25.00 on any student, levying assessments for damage done, reporting to parents or guardians and admonition.

7. Any students found guilty of immoral, dishonest, disorderly or improper conduct, or of wrongfully causing damage to person or property, is liable to University discipline.

8. If on an occasion of general disorder on the part of a year, class, or group of students, damage is done to University property, or acts committed meriting discipline, and the individuals who have done such damage or committed such acts are not discovered, an assessment to cover the damage may be laid, or a fine imposed, or both, on all the members of such year, class or group.



## ACADEMIC DRESS

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have been granted by the Faculty.

*Undergraduates* wear a plain black stuff gown, not longer than half way between the knee and the ankle, with round sleeves cut above elbow.

*Bachelor of Arts.*—Black stuff gown, falling down below knee with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

*Bachelor of Science.*—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

*Bachelor of Science in Agriculture.*—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

*Bachelor of Civil Law.*—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

*Bachelor of Architecture.*—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

*Bachelor of Music.*—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

*Bachelor of Commerce.*—The same gown as Bachelors of Arts; hood, black silk, lined with purple silk and edged with white fur.

*Bachelor of Library Science.*—The same gown as Bachelors of Arts; hood, black silk, lined with orange silk, and edged with white fur.

*Master of Arts.*—Black gown of stuff or silk, falling below knee, with long sleeves with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

*Master of Science.*—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

*Master of Commerce.*—The same gown as Masters of Arts; hood, black silk, lined with purple silk.



*Doctor of Medicine.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

*Doctor of Dental Surgery.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

*Doctor of Laws.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

*Doctor of Literature.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

*Doctor of Science.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

*Doctor of Civil Law.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

*Doctor of Music.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with mauve silk.

*Doctor of Philosophy.*—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.), faced with silk of the same colour as the lining of their respective hoods.

All hoods are in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates wear the ordinary black trencher with black tassel, but Doctors of Law, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods are kept for inspection in the office of the Registrar.

For the information of graduates in Great Britain, it may be stated that the gowns and hoods for the various degrees specified above can be purchased from Messrs. Ede, Son & Ravencroft, 93 and 94 Chancery Lane, London, W.C. 2.



## THE FACULTY OF ARTS AND SCIENCE

The undergraduate work of the University in the Humanities or Arts, in Pure Science, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science. The Faculty has, for administrative purposes, three divisions, the Arts Division, the Science Division, and the School of Commerce. The Arts and Science divisions have each a Dean, the School of Commerce a Director-Secretary. The Faculty as a whole controls all the undergraduate work in these divisions. The Arts Division supervises the work of all students reading for the degree of Bachelor of Arts (B.A.), the Science Division that of all students reading for the degree of Bachelor of Science (B.Sc.), the School of Commerce that of all students reading for the degree of Bachelor of Commerce (B.Com.). Details of the requirements for the degree of B.Com. are given on pp. 242-258.

### Women Students.

Women are admitted to the courses and to the Degrees of the Faculty on the same terms as men, but in the more elementary courses they are usually taught in separate classes (see page 236).

### Entrance Requirements.

Students may enter the Faculty as full undergraduates by passing either the Junior or the Senior Matriculation Examinations or equivalent examinations, in the requisite subjects (see pp. 83-92). A student with incomplete matriculation qualifications is not admitted as an undergraduate. The bachelor's degree may be obtained only by students who have regularly attended the prescribed courses for at least four years after satisfying the Junior Matriculation requirements, or for at least three years after satisfying the Senior Matriculation requirements. Such students must also obey the regulations of the Faculty governing undergraduate courses of study.

### Classes of Students in the Faculty.

(1) *Undergraduates*: Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates*: Students with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.



Limited Undergraduates are not eligible for scholarships, exhibitions, bursaries or prizes of any description and may not read for an Honour Degree.

(3) *Partial Students*: Students not studying for a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Heads of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has failed to matriculate in any subject is not allowed to register as a partial student.

#### AGE OF ADMISSION

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

#### DEGREES OFFERED

The Faculty of Arts and Science offers courses of study leading to three degrees:

Bachelor of Arts.

Bachelor of Science.

Bachelor of Commerce.

The degrees offered in other faculties are stated on page 77.



## GENERAL INFORMATION

### ADVANCED COURSES IN THE FIRST YEAR

Most of the Departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the Departments when lectures actually commence and there is in such cases no separate registration for them.

### GENERAL DEGREES AND HONOUR DEGREES

An undergraduate in the Faculty of Arts and Science may proceed to a General Degree, which implies in his work a fairly wide range of subjects with a limited amount of specialization (see pp. 159-161, or to an Honour Degree, which after the First Year necessitates almost complete specialization in either one or two subjects (see pp. 157-159).

In view of the projected organization of post-matriculation studies in High Schools, considerable changes in the regulations governing Honour Degrees may be expected next year.

### ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.\* Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or accident are dealt with only by the Deans of the respective Faculties.

Excuses for absences in excess of one-eighth are entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates will be filed, and, if they are accepted, the Dean will give the student a statement excusing the absences covered, which must be shown to all the professors concerned as promptly as possible.

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\* Physical education is included under this regulation.



2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases are dealt with by the Dean of the Faculty.

3. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lectures are marked absent.

#### CHANGING COURSES

Students may change the courses for which they have registered provided that the changes do not conflict with the regulation and that the change is made within twenty days of the commencement of the session. No changes can be made after this period. Application to change courses must be made to the Registrar's Office.

#### EXAMINATIONS

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 75 per cent and 60 per cent respectively.

#### INTERIM TESTS AND PROBATION

There are two regular interim tests for all students of the First Year, the first being held near the middle of November and the second during the week preceding the Christmas vacation.

The test is usually the equivalent of a standard examination of one hour.

All students who fail in more than one-third of these tests are placed on probation for the rest of the academic year. A student on probation is not allowed to become a member of a College athletic team, to hold office in any College society, or to take part in any major student activity. A student who fails in one-half or more of these tests is dropped from the University for that year and is not allowed to re-enter the University except with the consent of the Faculty.



**MID-SESSIONAL EXAMINATIONS**

There are no regular mid-sessional examinations in January except in courses which are given only in the first term, and in these courses the examination may be held in May with the other final examinations if the Department so desires. Members of the teaching staff may, however, give such interim examinations as they think necessary from time to time.

**FINAL EXAMINATIONS**

The final examinations are held in May. For time-table see pp. 239-241.

**SUPPLEMENTAL EXAMINATIONS**

The regulations governing supplemental examinations are as follows:—

A student conditioned in a course may remove the condition during the next Calendar session by passing—

- (1) the supplemental examination in September following, or,
- (2) a special supplemental examination in February following, or,
- (3) upon application to the Dean and on payment of the fee prescribed for a special supplemental (always on the understanding that there is no conflict in the time-table), at the sessional examination in May. If by the close of that session the condition has not been removed, the student may take, within the Calendar session next following, *but not thereafter*, one of the three separate examinations as enumerated above, but on the understanding that the fee payable in September or in May shall be the same as that prescribed for a special supplemental. All applications for supplemental examinations must be made to the Dean in writing.

Applications to write supplemental papers in September must reach the Dean's Office before September 1st.

Any student who fails in more than one-half of his subjects in the First Year is refused permission to return to the College. These students are not precluded, however, from entering the Second Year if they pass the full set of examinations required for Senior Matriculation. Any student who fails in one-half or more than one-half of his subjects in the Second, Third and Fourth Years will be obliged to repeat the Year.

The fee for supplemental papers is \$5.00 and for special supplementals \$10.00 for each paper. A second supplemental examination in any subject is always ranked as a special supplemental. These fees must be enclosed with the written application.



## ADVANCEMENT FROM YEAR TO YEAR

*Advancement to the Second Year.*—A student may proceed to the Second Year with any one full course, or two half courses, unpassed.

*Advancement to the Third Year.*—A student may proceed to the Third Year with any one full course, or two half courses, unpassed, unless that full course, or one of the two half courses, belongs to the First Year.

Students of good standing, however, who have succeeded in passing all courses required in the Second Year may be allowed by special permission of the Dean to proceed into the Third Year carrying a condition in one full course, or in two half courses, from the First Year.

*Advancement to the Fourth Year.*—A student may proceed to the Fourth Year with any one full course, or two half courses, unpassed, unless that full course, or one of the two half courses, belongs to the First or Second Year of his course.

*Repeating a Year.*—By special permission of the Dean, a student who is permitted to repeat a Year may, on application:—

(a) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed;

(b) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following year in his course.

N.B.—The choice of subjects must involve no conflict of hours as printed in the time-table.

## HONOUR COURSES FOR THE DEGREE OF B.A.

Honour courses may be elected in any two combined cognate departments or in any single department.

The arrangement of combined honour courses is left to the departments interested, and in cases of doubt or disagreement is referred to the Faculty for final decision.

In the Honour courses in combined departments, when the departments are divided into two sections (as **Classics** into Greek and Latin, **Economics** and **Political Science** into Economics and Political Science), the graduate's certificate designates by name the sections in which Honours have been taken (*e.g.*, First Class Honours in Greek and Second Class Honours in Latin); but in Honour courses in combined departments, where the departments are not divided into sections (as English, History, Sociology, etc.), the graduate's certificate indicates that the work done in each of the departments amounts to only half of a full Honour course in that department—*e.g.*, First Class Honours in



English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half).

Honour courses normally begin in the Second Year. Most departments giving instruction in the First Year, however, offer advanced courses to the better students in that year.

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes and the Head of the Department is satisfied that his knowledge of the subject is sufficient to enable him to reach the standard of Honours by two more years' study, be allowed to take up the Honour course in that subject at the beginning of his Third Year.

Honour lecture courses are open to properly qualified general students.

The conditions for entering Honour courses in the Second Year are as follows:—

(a) A student must not have failed in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the Head or Heads of the Departments in which Honours are elected must be obtained.

(c) No student may take Honours in a subject in which he has failed to attain at least second class standing in his First Year.

Honour students who fail to attain second rank honour standing at the end of the Second Year must revert to the General course in their next and following years, unless they obtain special leave to continue their honour work from the department or departments interested.

Honour courses in the Second Year consist of 15 hours and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work also involves wide reading and study in the subject, apart from the actual subjects of lectures, in accordance with a definitely prescribed programme.

Attention is drawn to the fact that lectures are not given on all parts of the work.

In the Second Year a student registering for Honours in one subject only, fulfils the requirement of fifteen hours by taking a minimum of two courses or six hours in his Honour subject, and, in addition, such other courses (bringing the total to fifteen hours) as the department under which he is studying may direct. A student registering for combined Honours in two subjects fulfils the requirement of fifteen hours by taking two full courses in each Honour subject, or twelve hours altogether, and, in addition, one other course, making a total of fifteen hours, as the two departments concerned may direct. A student who has



failed in any such subject in the Third Year examinations is not allowed to continue his Honour course except with the consent of the Faculty.

Departments are at full liberty to recommend their Honour students to take one or more courses in cognate departments as the equivalent of courses in their own departments.

A student's whole record during his Second, Third and Fourth Years may be considered in awarding Honours at graduation.

Students in Honour courses who fail to attain second rank honours at graduation, or who only succeed in attaining second rank honours in one of two combined courses, must revert to the list of General students.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected.

The examinations for Honours are not conducted exclusively by persons who have given the courses.

#### COURSES FOR THE GENERAL B.A. DEGREE

In each of the First and Second Years five courses must be taken, i.e., fifteen hours of class work per week; and in the Third and Fourth Years respectively, four courses (twelve hours). The third hour in each course each week may be devoted to group conferences.

##### FIRST YEAR

(a) *Compulsory.*

Latin or Greek.

English 1 and 2.

Mathematics.

But in the case of students who have already shown some aptitude in languages and are permitted to take three languages (exclusive of English), Mathematics shall not be compulsory.

Physical Education (two hours per week).

(b) *Elective.*

Two of the following:—

History.

Greek or Latin (if not already taken).

French.

German.

Science (Physics or Chemistry 1 and 1C or Botany 1 and Zoology 1.)



For the subjects required to be taken by students who wish to qualify for the First Class High School diploma of the Province of Quebec, see page 187.

Details of the work in each subject are given on pages 61 to 120.

#### SECOND, THIRD AND FOURTH YEARS

Students must choose two subjects for continued study through the Second, Third and Fourth Years.

These are designated *continuation subjects*.

In each of the continuation subjects, a full course or two half courses must be taken each year.

One of the continuation subjects must be selected from Division I below, and one from Division II, or both must be selected from either Division I or Division II.

DIVISION I	DIVISION II	DIVISION III	DIVISION IV
English.	Economics.	Botany.	Education.
French.	History.	Chemistry.	Ancient
German.	Mathematics.	Geology.	History.
Greek.	Philosophy.	Physics.	
Hebrew.	Political Science.	Zoology.	
Latin.	Psychology.		
	Sociology.		

Physical Education is compulsory in the Second Year for two hours per week.

Additional courses, or the equivalent number of half courses, must be chosen as follows:—

In the Second Year—Three additional full courses;

In the Third Year—Two additional full courses;

In the Fourth Year—Two additional full courses.

Of the additional courses *one* must be selected from Division III unless the student has already passed in a science subject in the First Year; *one* also must be a modern foreign language, from Division I, unless the student has chosen such a language as a continuation subject, or has passed it in the First Year.

A course intended primarily for First Year students may be counted as a full course in the Second Year.

Only those courses may be chosen for which the student has fulfilled the prerequisites laid down by each department.



Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures or laboratory periods.

All students are required to consult one of the Departments in which they are doing continuation work on the selection of these additional subjects.

Students who are pursuing a double course in Arts and Science and Divinity (six years at least) take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts and Science, less a half course in each of these Years, or a whole course in either.

#### DISTINCTION IN THE GENERAL DEGREE

A student of sufficient merit who has completed the work for a general degree may be awarded either Distinction or Great Distinction at graduation.

These awards are based upon the student's record during his Second, Third and Fourth Years, and at least an average first class standing is required for Great Distinction and an average high second class standing for Distinction.



## LIST OF COURSES AND PREREQUISITES

SECOND YEAR		THIRD YEAR		FOURTH YEAR	
COURSE	PREREQUI-SITE	COURSE	PREREQUI-SITE	COURSE	PREREQUI-SITE
<b>DIVISION I.</b>					
English, 3, 4, 6, 7, 15...	1 and 2...				
French, 2...	1...	4, 5...	2...	6, 7...	2...
German, 5, 6, 4...	1 or 2... 3...	8, 9, 10, 11 12, 13...	5 or 7...	8, 9, 10, 11, 12, 13...	5 or 7...
Greek 1b...	1a...				
2...	2...	5, 6...	2 or 4...	5, 6...	2 or 4...
Hebrew 1...		2, 3, 4, 6... 2, 3, 6... 7, 8...	1... Greek 1...	3, 4, 6... 2, 3, 6... 7, 8...	1... Greek 1...
Latin 2...	1...	3, 4...	2...	3, 4...	2...
<b>DIVISION II.</b>					
Economics 1		3, 4, 5... 6, 7, 8...	1 or 2...	9, 11, 12, 13, 14, 15, 16, 17...	1 or 2...
History 2, 3...	1...	3, 4, 5...	A 2nd Year Course	4, 5, 6...	Any 3rd Yr. Course.
Mathematics 2, 3, 4, 5...	1...	2, 3, 4, 5... 6, 7, 8...	1... 3 and 4...	2, 3, 4, 5... 6, 7, 8... 9...	1... 3 and 4... 8...
Philosophy 1		2, 3, 4...	1...	5, 6, 7, 8, 9...	1 and 2 or 3 or 4...
Political Science 2...		3, 4, 5, 8...	1 or 2...	10, 11, 12... 13, 14...	1 or 2...
Psychology 1		2, 3, 4, etc..	1...	2, 3, 4, 5, 9, etc.	1...
Sociology 1...		2, 3, 4, 7...	1...	2, 4, 5, 6, 7, 8, 9, 11, 12, 13	1...
<b>DIVISION III.</b>					
Botany 2...	1...	3...	1, or Zool. 1.	6, 7...	2...
3...	1, or Zool. 1.	4...	3...	7...	2...
Chemistry 2	1 and 1c...	2...	1 and 1c...	2...	1 and 1c...
3	1 and 1c...	3...	1 and 1c...	3...	1 and 1c...
Geology...		2, 3, 4, 12...	1...	2, 3, 4, 12...	1...
Physics 3...	2 (and Math. 1)...	3, 4...	2 (and Math. 1)...	3, 4...	2 (and Math. 1)...
		5, 6...	3, 4 (and Math. 3)	5, 6...	3, 4 (and Math. 3)
				7, 8...	5, 6a (and Math. 7)
Zoology 2-4...	1...	2-5, 7...	1...	2-5, 7...	1...
<b>DIVISION IV.</b>					
Education...				2...	1...



## III. THE GENERAL B.Sc. CURRICULUM

An undergraduate may read for either a general or an honour B.Sc. degree.

The courses leading to the general degree have been arranged to give students a training in science as a preliminary to entering a technical business or the teaching profession.

Students intending to enter a profession are advised to read for an honour degree.

## First Year

English 1 and 2.

\* French 15 or German 3 or 4.

Mathematics 1.

Physics 1 or 2.

Chemistry 1 and 1C.

Details of the work in each subject are given on pages 61 to 120.

## Second Year

In addition to English, four subjects must be taken, of which three must be selected from Group I below. The fourth subject is either French 15 (if not already taken), German 3 (if not already taken), or German 4.

## Third and Fourth Years

Two subjects selected from Group I must be continued in the Third and Fourth Years and two other subjects must be taken.

## GROUP I

SUBJECTS	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Biology.	Zoology 1. Botany 1.	Zoology 2 or 4; or Botany 6 and 8.	Botany 6 and 8 or Zoology 2 or 4.
Chemistry.	2 or 3, and 4.	2 or 3, and 9.	5 or 6 and 8.
Geology.	1.	5 and 6.	2 and 3.
Mathematics.	3.	4 and 5.	7.
Physics.	2 (or 3A, if 2 has been taken).	3A (or 3B and 4, if 3A has been taken).	3B and 4 (or 5A and 8A; or 8A and 9).

\* German must be taken by any student who has not matriculated in German, and French by any student who has not matriculated in French.



## GROUP II

SUBJECTS	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Economics and Political Science.	1 or 2.	Any one of:—4 and 5, 6 and 7, 8 and 9.	Any one of:—4 and 5, 6 and 7, 8 and 9 (if not chosen in the Third Year), 12 and 13, 14 or 15.
Education.		1.	2.
English.	4, 6, 7 or 8.	Any one of:—4 to 11, 15, 18.	Any one not taken in the Third Year, of 4 to 11, 15, 18.
French.	2.	4 or 5.	4 or 5.
German.	3 or 4.	7 or 8.	7 or 8.
History.	2 or 3.	4.	5 or 6.
Philosophy.	1.	Any one of:—2, 3, 4.	2 or 3 or 4, which ever has not been taken in the Third Year.
Psychology.	1.	Any full course of 2-14.	Any full course of 2-14, not taken in the Third Year.
Sociology.	1.	2, or 3 and 4, or 5 and 6.	2, or 3 and 4; or 5 and 6, any course not taken in the Third Year.

Students selecting Physics, as one of the three subjects for the general B.Sc. degree, must also select Mathematics.

A student in the Fourth Year may be allowed to drop one of the two compulsory subjects and to take an equivalent amount of work in the other compulsory subject.

## IV. THE HONOUR B.Sc. DEGREE

Students proposing to read for an honour degree must select one principal subject from Group 1 (page 163), in which subject they must have obtained at least high second class standing in the First Year. If the subject chosen for honours is not offered in the First Year, an aggregate standing of high second class must be obtained in all subjects of the First Year.



Students who fail to retain their honours standing will be required, at the discretion of the B.Sc. Advisory Committee, either (1) to repeat the year in honours or (2) to repeat the year in the general course or (3) to proceed to the following year, reverting to the general course.

The exact courses of study will be specified by the department concerned. All students will be required to take a course in German 4.

#### V. COURSE IN ENGINEERING PHYSICS

There is an increasing demand for men with an advanced knowledge of Mathematics and Physics, who are capable of conducting investigations of a research character. With a suitable training, openings in this field of work may be found in research laboratories of the Government and of industrial corporations, in consulting work, and in University appointments.

In view of these facts, a course in Engineering Physics leading to the degree of B.Sc. has been arranged. It is open to capable students in Arts and Science or Engineering.

1. To students in Arts and Science entering their Third or Fourth Year, provided they have satisfactorily passed in the following prerequisites:—

Mathematics 3, 4, 5.

Physics 3, 4.

Chemistry 1 and 1C.

2. To students in Engineering who have completed the Second Year and have received first or second class rank in Mathematics and Physics, subject to the approval of the Heads of the Departments of Electrical Engineering and Physics.

During their summer vacation at the end of the Second Year, students are advised to spend three months at an approved shop or radio station.

#### Third Year

Mathematics 6, 7.

Physics 5A, 5B and 6B or 8B\*.

Electrical Engineering 113, 114.

#### Fourth Year

Mathematics 10 or 11.

Physics 6A, 7A, 7B, 8A, 8B or 6B\*, 9, 10.

Summer Thesis or Shop Work.

\* Physics 6B and 8B are given in alternate years.



The student may now receive the degree of B.Sc., with Honours in Mathematics and Physics. In the Fifth Year the student should take a selection of the Fourth Year course for Electrical Engineering in Engineering, and also Physics 9 and 10, and one of 11, 12, 13, 14, 17 as shown in the Announcement of the Faculty of Graduate Studies and Research and proceed with research work and a thesis with a view to an M.Sc. degree.

The course must therefore cover five years and may cover six. During the last year (the sixth) opportunity may sometimes be afforded to act as demonstrator with a salary or to apply for Research Council Bursaries, etc.

#### VI. B.Sc. IN THE BIOLOGICAL SCIENCES

The University offers the following special courses for students especially interested in biological studies.

Students may enter these special courses upon completing the First Year of the B.A. or B.Sc. course, comprising the following subjects:—

English 1 and 2, French or German (German is recommended).  
Mathematics 1, Chemistry 1 and 1C.

and one of the following:—

Physics 1, 2 or 2P.

Biology (Botany 1 and Zoology 1).

Latin 1.

#### Second Year

Five full courses must be selected from the following:—

Biology (Botany 1 and Zoology 1).

This course is compulsory if it has not already been taken.

A course in English.

A course in German.

Mathematics 3.

At least one of these must be taken and Mathematics is recommended.

Chemistry 2.

Chemistry 3.

Chemistry 4.

Not more than two of these may be taken.

Physics 1 or 2 or 2P or 3A.

A course in Botany.

A course in Zoology.

Physiology 1.



### Third Year

Four courses must be selected. Of these at least two and a half must be of a biological character.

The courses may be selected from:—

**Chemistry 2, 3, 4.**

**Physics 2 or 2P or 3A.**

**General Physiology (Botany 6 and 8).**

**Botany** (any one or two approved courses).

**Physiology** (any one approved course).

**Histology and Embryology.**

### Fourth Year

Three approved courses to be selected, special attention being devoted to one of the four first-mentioned subjects. The courses may be selected from those given in the following subjects:—

**Botany.**

**Zoology.**

**Physiology** (Courses 2 and 3).

**Biochemistry** (Courses 1 and 2).

**Histology and Embryology.**

**Bacteriology.**

**Anatomy.**

During this year the student's ability to read scientific books and papers in German and French will be tested by the Department in which he is taking his major work.

*Prerequisites:*—Information as to prerequisite courses may be found in the announcements of the various departments. Before selecting the subjects for the Third and Fourth Years of their course, students must consult with the heads of the departments concerned.

### CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

The Faculty of Arts and Science assumes no responsibility for arranging or directing courses of study for students intending, at the end of their First, Second or Third Year, to enter one of the other Faculties of the University.

Such students are advised, before registering for the first time under the Faculty of Arts and Science, to acquaint themselves with the entrance requirements laid down by these other Faculties. They must consider the fulfilment of these requirements as only incidental to their



work in Arts and Science; and they must follow the regulations of the curriculum as though they were proceeding to a degree in the Faculty of Arts and Science.

All undergraduate students in the Faculty must register for one of the Bachelor's degrees offered, viz.: B.A., B.Sc., or B.Com. Students who have successfully completed the First Year leading to the degree of B.A. or B.Sc. may apply for admission into the Faculty of Engineering, provided they have completed the course in English, Mathematics, Physics and two other subjects.\* Students who have successfully completed the first two years towards the B.Sc. degree or the first three years towards either the B.A. or the B.Sc. degree may apply for admission into the Faculty of Medicine or of Dentistry, provided they have successfully followed for one year the regular course in each of the following subjects:—viz., Physics, Inorganic Chemistry, Organic Chemistry and Biology. A minimum of two years is required for admission into the Faculty of Law.

Students completing three years in Arts and Science and two years in Medicine are entitled to apply to the Faculty of Arts and Science for the degree of B.Sc.

### COURSES OF LECTURES IN ARTS AND SCIENCE

The hours of all General lectures and most of the Honour lectures are indicated. In the case of the other Honour lectures the hours will be arranged by the several departments at the opening of the session.

#### DEPARTMENT OF ANATOMY

ROBERT REFORD PROFESSOR OF ANATOMY:—S. E. WHITNALL.

ASSOCIATE PROFESSOR:—J. BEATTIE.

Before registering for the courses below students should consult the head of the department to ensure that they are qualified to undertake the work.

**1. Comparative Anatomy of the Primates. Third or Fourth Year.**

The class work includes the dissection of at least one primate.

Two lectures and four hours' laboratory throughout the session.

Professor Beattie.

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\* In 1932 Chemistry will also be compulsory.



**2. Physical Anthropology.**

For students who have completed Anatomy 1.

The study of the early forms of man and the problems of racial evolution. One lecture and one laboratory period during the first term .....Professor Beattie

**3. Comparative Neurology.**

The problems of neurological development treated both phylogenetically and embryologically. The relation between physical structure and behaviour. The course is mainly a laboratory one and students are expected to provide their own microscopes and dissecting instruments.....Professor Beattie

**DEPARTMENT OF BACTERIOLOGY**

PROFESSOR:—E. G. D. MURRAY.

LECTURERS:— $\left\{ \begin{array}{l} \text{W. W. BEATTIE.} \\ \text{FRED SMITH.} \end{array} \right.$

DEMONSTRATORS:— \_\_\_\_\_.

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

**Course 1. General Bacteriology.**

Twenty lectures and 60 hours' practical work (2 days a week) throughout the year.

Introductory Survey and Elementary Technique, Morphology, Physiology, Growth and Death, Bacteriological Technique (Manipulative, Microscopic, Sterilization, Media and Media-making, Cultural Methods, Animal Experiments), Classification, Variation.

**Course 2. Systematic Bacteriology.**

Forty lectures and 120 hours' practical work (2 days a week) throughout the year.

Staphylococcus, Streptococcus, Neisseria, Sarcina, Bacterium, Protens, Lactobacillus, Pasteurella, Vibrio, Bacillus, Clostridium, Corynebacterium, Mycobacterium, Chromobacterium, Pseudomonas, Rhizobium, Nitrobacteria, Acetobacter, Azotobacter, Spirochaeta, Filterable Viruses.

Historical Survey.



**Course 3. Immunology.**

Forty lectures and 120 hours' practical work (2 days a week for 20 weeks) throughout the year.

Introductory, Agglutination, Precipitation, Hæmolysis and Bacteriolysis, Complement Fixation, Phagocytosis, Toxins and Antitoxins, Hypersensitiveness and Anaphylaxis, Properties of Antigens and Antibodies, Infection and Resistance and Virulence, Tissue Reactions to Infections and Invasion, Prophylactic Vaccination, Historical Survey.

**Course 4. Medical Bacteriology and Immunity.**

Thirty lectures and 90 hours' practical work, and a weekly Tutorial Class. First Term.

Introductory and Historical Survey.

Elementary Morphology; Physiology and a limited classification of Pathogenic Bacteria.

Growth; Death and Variation.

Sterilization methods; their applications and where and how they may fail.

Culture Media and Cultural methods.

The process of Infection and Invasion; the epidemiology; the progress of the disease to healing and death; the tissue reaction, and the isolation and identification of the infecting organism in diseases caused by: The Staphylococcus; the Streptococcus (including the Pneumococcus); the Gonococcus and Meningococcus; the Typhoid-Coli-Dysentery group; *Br. militensis*; *P. pestis*; *C. Tetani* and the Gas-gangrene bacilli; *Cor. diphtheriæ*; *My. tuberculosis*; the Spirochaetes and the Filterable Viruses.

The Carrier Problem.

Arthropod Vectors.

Phagocytosis.

Agglutination; Precipitation; Bacterolysis and Hæmolysis and their applications.

The Wasserman Reaction.

Toxins and Antitoxins; illustrated by Diphtheria, Tetanus, and the Schick, Dick and Schultz-Charlton Reactions.

Prophylactic Vaccination.

**CURRICULUM FOR B.Sc. HONOURS IN BACTERIOLOGY**

*Prerequisite*:—An aggregate standing of high second class must be obtained in the subjects submitted for the First Year; Biology (Zoology 1 and Botany 1), Chemistry, Physics, French or German are suggested as suitable subjects.



*Second Year:*—Subjects to be arranged in consultation with the Head of the Department of Bacteriology. For the average student the following subjects are suggested: Physiology, Comparative Anatomy of Vertebrates (Zoology 4), Chemistry 2 and 4, Histology, French or German, Botany.

*Third Year:*—Bacteriology 1 and 2 and three other subjects.

*Fourth Year:*—Bacteriology 3 and 4 and two other subjects.

It is suggested that the additional subjects for the Third and Fourth years be selected from: Physiology, Histology 1 and 2, Biochemistry, Chemistry 2, 4 or 7, Botany 5 and 7, Zoology.

Candidates for the Honour B.Sc. Degree in Bacteriology must complete Courses 1, 2 and 3 and are advised to supplement their studies by taking Course 4 as an introduction to Course 3.

Candidates for the ordinary B.Sc. Degree taking Bacteriology as a secondary subject may take Course 1 only.

Courses 1 and 2 are prerequisite for Course 3, but students of Medicine, who have done sufficiently well in their medical Bacteriology and in their medical studies in general, will be admitted to Course 3.

#### DEPARTMENT OF BIOCHEMISTRY

PROFESSOR:—J. B. COLLIP.

ASSISTANT PROFESSOR:—D. L. THOMSON.

DEMONSTRATORS:—

{	R. L. KUTZ.
	J. S. L. BROWNE.
	L. I. PUGSLEY.
	C. W. CHAPMAN.

#### General Course:

(a) Lectures: Monday at 10; Wed. at 9; Friday at 2; Saturday at 9.

(b) Laboratory: 12 hours a week, on Monday, Wednesday and Friday.

*Text-books:*—Bodansky, "Introduction to Physiological Chemistry." Cameron, "Text-book of Biochemistry."

Note:—This course is given from October to February. Students are required to have some previous knowledge of Chemistry and Biology.

#### Advanced Course:

Lectures and advanced laboratory work are offered to students who have completed the above general course or its equivalent.

*Text-books:*—Lusk, "Science of Nutrition"; Pryde, "Recent Advances in Biochemistry"; Peters and van Slyke, "Quantitative Clinical Chemistry"; Hawk & Bergeim, "Practical Physiological Chemistry."



## DEPARTMENT OF BOTANY

PROFESSORS:— { FRANCIS ERNEST LLOYD.  
GEORGE W. SCARTH.

ASSOCIATE PROFESSOR:—C. LEONARD HUSKINS.

LECTURER:—R. D. GIBBS.

INSTRUCTOR IN BOTANY:—JANE D. SPIER.

DEMONSTRATOR:—A. B. BROWN

1. **General Botany.** Introductory Course. First Year.  
Second term; Mon., Wed., at 2; laboratory, Friday, 2-4.  
Professors Lloyd, Scarth, and Mr. Gibbs.  
(Taken with Zoology 1 as in 1st year Biology.)

- 1M. **General Biology (Plants).**  
Tu., Th., at 2; laboratory, Mon., Wed., Fri., 9 to 11.  
Professors Lloyd, Scarth and Mr. Gibbs.  
(See Zoology 1M.)

2. **Plant Morphology and Taxonomy.** Second Year.  
Hours to be arranged; four hours laboratory.  
Professor Scarth and Miss Spier.

3. **Evolution and Genetics.** Second or Third Year.  
Mon., Wed., Fri., at 9; two hours laboratory.  
(May be taken without laboratory work as half course.)  
Professor Huskins.

4. **Plant Anatomy.** Second or Third Year.  
Three hours lectures; four hours laboratory.  
Hours to be arranged.....Professor Scarth and Miss Spier.

5. **Cytology.**  
(To be arranged.)

6. **Introductory General Physiology.** Third or Fourth Year  
Arts and Science, optional in Medicine.  
First term; Tu., Th., at 2; laboratory Tu., Th., 3-5.  
Professor Scarth and Mr. Gibbs.



7. **Plant Physiology: Problems.** Third or Fourth Year Arts and Science.  
Second term.  
Two hours lectures; hours to be arranged; four hours laboratory.  
Professor Scarth, and Mr. Gibbs.  
Note:—Courses 6 and 7 constitute plant physiology for one session.
8. **Plant Biochemistry.** Third or Fourth Year.  
First term. Lecture and laboratory hours to be arranged.  
Mr. Gibbs.
9. **Mycology and Pathology.** (To be arranged.)
10. **Colloquium.**  
First term; Tues., at 5.....The Staff.
11. **Taxonomy: Method.**  
A short course in April on request.
12. **Advanced Genetics and Cytology: Special Topics.** Third or Fourth Year and Post Graduate.  
Three hours throughout session given in co-operation with the Department of Mathematics and the Staff of Macdonald College.

#### HONOUR COURSE IN BIOLOGY

Prerequisite: Botany 1 and Zoology 1; *or* Botany 1M and Zoology 1M, together with Chemistry 1 and 1C, *or* Physics 1.

Second Year: Botany 2 and 3 (with laboratory work); Zoology 2; Physics 1, *or* Chemistry 1 and 1C.

Third Year: Botany two courses; Zoology 3 and 6.

Fourth Year: Botany two courses; Zoology 4 and 5.

Honour students must acquire a reading knowledge of scientific French and German. For Genetics and Physiology an elementary knowledge of statistical methods is advised.

#### GRADUATE COURSES

See page —.



## DEPARTMENT OF CHEMISTRY

DIRECTOR AND PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.

PROFESSOR OF PHYSICAL CHEMISTRY:—O. MAASS.

PROFESSOR OF ORGANIC CHEMISTRY:— ———.

PROFESSOR OF INDUSTRIAL AND CELLULOSE CHEMISTRY:—HAROLD HIBBERT.

PROFESSOR:—N. N. EVANS.

ASSOCIATE PROFESSOR:—W. H. HATCHER.

ASSISTANT PROFESSORS:—

{	C. F. H. ALLEN.
	E. W. R. STEACIE.
	J. H. MENNIE.

LECTURERS:—

{	W. H. BARNES.
	J. B. PHILLIPS.

## Session 1930-31.

DEMONSTRATORS:—

{	R. H. BALL.
	H. W. J. CRESSMAN.
	A. D. GRIEVE.
	R. K. HOLCOMB.
	G. R. LUSBY.
	D. W. MACLAUCHLAN.
	E. E. MASSEY.
	L. P. MOORE.
	M. E. PLATT.
	E. C. POWELL.
	A. F. PRICE.
E. W. SPANAGEL.	
J. S. TAPP.	

GRADUATE ASSISTANTS:—

{	R. BOYER.
	F. HOWLAND.
	R. MORTON.
	H. A. REEVE.
	F. B. WELLS.
C. V. WILSON.	

LECTURE ASSISTANT:—A. E. CANTON.

(Unless otherwise arranged, all lectures and laboratory courses are given in the Chemistry Building.)



### 1. General Chemistry.

1. Lectures, Mon., Wed., Fri.

Section A.—Professor Hatcher at 12.

Section B.—Professor Evans at 2.

*Text-books*:—Schlesinger—General Chemistry; Macpherson and Henderson, General Chemistry.

1C.—Gen. Chem. Laboratory, Tu. and Th., 2-4.

(Wed. and Fri., 3-5 by arrangement.)

Dr. Barnes and Demonstrators.

*Text*:—Laboratory Exercises in General Chemistry, Evans, Hatcher and Steacie.

NOTE.—1 and 1C must be taken concurrently.

### 2. Organic Chemistry (No. 56 Fac. Eng.).

First term; Tu., Th., Sat., at 12.

Second term; Tu. and Th., at 12.

Professor Hatcher.

Laboratory, six hours, second term.

Wed. and Fri., 2-5.

(Tu., 2-5, and Wed., 9-12, by arrangement.)

Professor Hatcher and Demonstrators.

*Text-book*:—Clarke, Introduction to the Study of Organic Chemistry.

### 3. Analytical Chemistry.

#### (a) QUALITATIVE ANALYSIS.

First term; two hours lectures, six hours laboratory.

Professor Evans and Demonstrators.

Students who can do so are recommended to take this course with the students in Engineering in September (Eng. 54 and 55). This is particularly recommended to students who intend to take 3b1.

*Text-books*:—W. A. Noyes, Qualitative Analysis; N. N. Evans, Notes on the Theory of Qualitative Analysis.

#### (b) QUANTITATIVE ANALYSIS.

(1) First term: one lecture, nine hours laboratory; second term, twelve hours laboratory.

This course must be taken by all B.Sc. honour students and all others who intend to take Chem. 8 (1).

(2) Second term only: one lecture and twelve hours laboratory.

Professor Mennie and Demonstrators.



4. Elementary Physical Chemistry (No. 58 Fac. Eng.).  
Mon., Fri., at 12.....Professor Steacie.  
*Text-book*:—Maas and Steacie, Introduction to the Principles of Physical Chemistry.
- \*5. Organic Chemistry (Advanced).  
First term, Wed., Fri., at 10; Second term, Mon., Wed., Fri., at 10.  
Twelve hours laboratory.  
Professor Allen and Demonstrators.
- 5A. Organic Qualitative Analysis (No. 65A Fac. Eng.).  
One laboratory period a week throughout the session.  
Professor Allen and Demonstrators.  
*Text-book*:—Kam, Qualitative Organic Analysis.
- \*6. Inorganic Chemistry (Advanced) (No. 72 Fac. Eng.).  
Mon., Fri., at 12.....Professor Johnson.  
*Text-book*:—Caven and Lander, Systematic Inorganic Chemistry.
- \*7. Physical Chemistry (Advanced) (No. 66 Fac. Eng.).  
Wed., Fri., at 9, and Thur., at 10.....Professor Maass.  
*Text-book*:—Nernst, Theoretical Chemistry.
- \*7A. Physical and Colloid Chemistry Laboratory (No. 66A Fac. Eng.).  
Tues., 10-1, 2-5.  
Professors Maass, Steacie and Demonstrators.  
*Text-book*:—Findlay's Practical Physical Chemistry.
8. Quantitative Analysis (Advanced).  
\*(1) One lecture, twelve hours laboratory throughout the year.  
(No. 67 Fac. Eng.).  
Prerequisite Chem. 3b1.  
(2) First term: one lecture, twelve hours laboratory.  
Second term: twelve hours laboratory.  
Laboratory work of this course is a continuation of Chem. 3b2.  
Professor Mennie and Demonstrators.
9. Historical Chemistry (No. 74 Fac. Eng.).  
Second term; one hour.....Dr. Barnes.  
*Text-book*:—Venable, 1922 ed., History of Chemistry.

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\* Courses for Graduates and Honour Students.



**11. Electro-Chemistry** (No. 70 Fac. Eng.).

First term; Mon., at 9, Fri., at 12.....Professor Mennie.

*Text-book*:—Creighton and Fink, *Electro Chemistry*.

**13. Industrial Inorganic Chemistry** (No. 68 Fac. Eng.).

First term; Wed., Fri., at 11. Prerequisite Chem. 1 and 2.

Professor Hibbert.

**14. Industrial Organic Chemistry** (No. 69 Fac. Eng.).

Second term; Wed., Fri., at 11. Prerequisite Chem. 1 and 2.

Professor Hibbert and Associated Experts.

**\*15. Colloid Chemistry** (No. 75 Fac. Eng.).

Tu., Thur., at 11.....Professor Steacie.

*Text-book*:—Kruyt, "Colloids."

**B.Sc. HONOUR COURSES IN CHEMISTRY**

Each student must have his courses approved by the Department of Chemistry and the Dean of Science at the beginning of each session.

These courses begin with the Second Year.

Prerequisites: At least second class standing in Chemistry 1 and 1C; Mathematics 1 and Physics 1 or 2.

Second Year: Chemistry 3a, 3b1, 4; German 1, Mathematics 3; Physics 3a.

Third Year: Chemistry 2, 6, 7, 7a, 8, 9 (optional).

Fourth Year: Chemistry 5, 11, 13, 14, 15, and research.

The above courses may be altered with the consent of the Department of Chemistry and the approval of the Dean of Science.

**HONOUR COURSES IN CHEMISTRY AND BIOLOGY**

Prerequisites: French 15; German 1 or 3; Physics 1.

Second Year: Chemistry 1 and 1C; Botany 1; Zoology 1; French 2 and German 4.

Third Year: Either Physics 2 or French 4 or German 7 and Chemistry 2, 3 (a); Zoology 2; Botany 2 or 6 and 8.

Fourth Year: A full course in Physics or Biology or advanced Chemistry and Chemistry 3 (b), 15; Zoology 4; Botany 4.

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\* Courses for Graduates and Honour Students.



## DEPARTMENT OF CHINESE STUDIES

PROFESSOR:—KIANG KANG-HU.

The Gest Chinese Library is considered to be one of the finest of its kind in the world and offers excellent opportunities for study and research.

1. **The Geography, History, Political and Social Institutions of China** (given in 1931-32).

Mon., Wed., Fri., at 3.....Professor Kiang Kang-hu.

2. **Chinese Religions, Philosophies, Literature and Art** (given in 1932-33).

Mon., Wed., Fri., at 3.....Professor Kiang Kang-hu.

Courses 1 and 2 are intended to give a general and scholarly introduction to Chinese civilization. The lectures are given in English and no previous study of Chinese is necessary. The courses are given in alternate years.

3. **The Chinese Language.**

An introductory course in written and spoken Chinese. (1) The fundamental rules in building and writing characters with the brush; an analytical study of radicals and phonetics. A modern Chinese reader with about 1,000 well selected words is used as a first step to a workable reading knowledge of contemporary and classic literatures. (2) Kuo Yü, the National Language (formerly known as Mandarin); conversation and readings; the new "alphabets" and the standardized Romanization method are used as keys to correct pronunciation.

Tu., Thur., at 3.....Professor Kiang Kang-hu.

4. **Research Problems.**

Special topics for properly qualified advanced students in any branch of Chinese studies may be arranged including selected readings in the Gest Chinese Research Library, essays and reports.

Hours to be arranged.



## DEPARTMENT OF CLASSICS

PROFESSOR:—W. D. WOODHEAD.

PROFESSOR OF CLASSICAL PHILOLOGY:—CLIVE H. CARRUTHERS.

ASSOCIATE PROFESSOR:—ALEXANDER M. THOMPSON.

LECTURERS:— $\left\{ \begin{array}{l} \text{PAUL F. McCULLAGH.} \\ \text{E. M. COUNSELL.} \end{array} \right.$ 

## Greek

All students taking Honours in Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: Goodwin's Greek Grammar (Ginn & Co.); Liddell and Scott's Greek Lexicon (abridged or intermediate); Kiepert's Atlas Antiquus (Williams and Norgate); Smith's Smaller Classical Dictionary (Everyman Series, Dent).

## 1A. Beginners' Greek. First Year.

Tu., Th., Sat., at 10.....Mr. McCullagh.

*Text-books*:—Colson's Greek Reader (Macmillan); White, First Greek Book (Ginn & Co.).

## 1B. Greek. First and Second Years.

Mon., Wed., Fri., at 11.....Mr. McCullagh.

Lucian, Extracts, Bond and Walpole (Macmillan); Lysias, Eratosthenes (Lysias, Orations xvi, Shuckburgh, Macmillan); Homer, Iliad xviii (James, Macmillan); Odyssey vi, Translation at sight.

## 1C. Greek. First Year. (For more advanced students).

Tu., Th., Sat., at 10.

Lysias, Eratosthenes; Homer, Iliad xviii; Euripides, Alcestis; Herodotus, selections; Prose Composition and Sight Translation.

## 2. Greek. Second Year.

Tu., Th., Sat., at 11.....Professor Thompson.

Plato, Apology (Adam, Cambridge University Press); Homer, Odyssey IX (Edwards, Cambridge University Press); Euripides, Alcestis (Blakeney, Bell's Illustrated Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Oxford University Press).



3. **Greek. Third Year.**

Tu., Th., Sat., at 12.....Professor Stanley.  
 Herodotus, Selections (Barbour, Ginn and Co.); Thucydides II  
 (Marchant, Macmillan); Aristophanes, Birds (Merry, Clarendon  
 Press); Translation at sight (Fowler, Sportella).

4. **Greek. Fourth Year.**

Tu., Th., Sat., at 11.....  
 Thucydides I (Marchant, Macmillan); Demosthenes, On the Peace,  
 Philippic II, Chersonese, Philippic III (Sandys, Macmillan); Euripides,  
 Bacchæ (Tyrrell, Macmillan); Translation at sight.

## HONOUR COURSES IN GREEK

11. **Greek. Second Year.**

Tu., Th., Sat., at 9.....Professor Woodhead.  
 Plato, Apology, Crito, and Ion; Euripides, Medea; Sight Transla-  
 tion.

12. **Greek. Second Year.**

Mon., Wed., Fri., at 9.....  
 Thucydides I; Aeschylus Prometheus Vincetus; Sophocles, Antigone;  
 Prose Composition.

13. **Greek. Third Year.**

Tu., Th., Sat., at 10.....Professor Carruthers.  
 Plato, Protagoras (Adam, Cambridge University Press); Sophocles,  
 Antigone (Jebb); Theocritus (Bucolici Graeci, Oxford Classical  
 Texts); Greek Prose Composition and Translation at sight.  
 (Taken in conjunction with Greek 3.)

14. **Greek. Fourth Year.**

Mon., Wed., Fri., at 12.....Professor Woodhead.  
 Plato, Republic I; Aristophanes, Clouds (Merry, Clarendon Press);  
 Sophocles, Œdipus Rex (Cambridge University Press); Prose Com-  
 position and Sight Translation.  
 (Taken in conjunction with Greek 4.)

## Latin

All students taking Honours in Latin are expected to provide them-  
 selves with a grammar, a Latin-English dictionary, a classical dictionary,  
 and an atlas of ancient geography. The following are recommended:—



New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman's Series, Dent, Kiepert, Atlas Antiquus (Williams and Norgate).

**1. Latin. First Year.**

Mon., Wed., Fri., at 10.

Petrie, Latin Reader, with Introduction to Roman History (Oxford, Clarendon Press); Latin Prose Composition (Marchant and Watson, Bell & Sons Ltd.); Translation at sight.

**1A. Latin. First Year (for more advanced students).**

Mon., Wed., Fri., at 10.....Professor Woodhead.

Cicero, Pro Lege Manilia (King, Clarendon Press); Pliny, Selected Letters (Westcott, Allyn and Bacon); Catullus, Selected Poems (Macmillan, Clarendon Press); Horace, Select Odes (Jackson, Clarendon Press); Latin Prose Composition (Marchant and Watson, Bell & Sons); Translation at sight.

**2. Latin. Second Year.**

Tu., Th., Sat., at 12.....Mr. McCullagh.

Livy, Book I (Freeman, Clarendon Press); Horace, Odes I (Page, Macmillan); Virgil, Aeneid IV (Stephenson, Macmillan's Elementary Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Clarendon Press).

**3. Latin. Third Year.**

Mon., Wed., Fri., at 12.....Professor Thompson.

Sallust, Catiline (Summers, Cambridge University Press); Horace, Epistles (A. S. Wilkins, Macmillan); Translation at sight (Pope and Bradshaw, Longmans).

**4. Latin. Fourth Year.**

Tu., Th., Sat., at 9.....Professor Carruthers.

Cicero, Selected Letters (Abbot, Ginn & Co.); Virgil, Eclogues; Plautus, Captivi (Lindsay, Clarendon Press); Translation at sight (Pope and Bradshaw, Longmans).

**HONOUR COURSES IN LATIN**

**11. Latin. Second Year.**

Tu., Th., Sat., at 11.....Professor Carruthers.

Sallust, Catiline; Livy 1; Latin Prose Composition.



## 12. Latin. Second Year.

Tu., Th., Sat., at 10.....Professor Thompson.  
 Plautus, Captivi; Terence, Phormio; Virgil, Aeneid iv, vi, viii;  
 Sight Translation.

## 13. Latin. Third Year.

Mon., Wed., Fri., at 9.....Professor Woodhead.  
 Tacitus, Annals 1-2 (Furneaux, Annals I-IV, School Edition,  
 Clarendon Press); Virgil, Georgics I, II, IV (Papillon and Haigh,  
 Clarendon Press); Latin Prose Composition and Sight Translation.  
 (Taken in conjunction with Latin 3.)

## 14. Latin. Fourth Year.

Mon., Wed., Fri., at 11.....Professor Woodhead.  
 Juvenal, Selections (Duff, Cambridge University Press); Seneca,  
 Select Letters (Summers, Macmillan); Prose Composition.  
 (Taken in conjunction with Latin 4.)

## Ancient History

Greek and Roman History and Institutions: a lecture and reading  
 course open to students of the Second, Third and Fourth Years. May  
 be taken as a half-course in the first or second term.

Mon., Wed., Fri., at 11.....Professor Carruthers.

## ADVANCED COURSES

The following Courses are outlined by the Department of Classics  
 for students entering with advanced standing in Greek and Latin:—

YEAR	LATIN	GREEK
I.	Cicero, Pro Lege Manilia	Lysias, Eratosthenes.
	Pliny, Selected Letters.	Lucian, Selections.
	Catullus, Selected Poems.	Homer, Iliad XVIII.
	Horace, Selected Odes.	Euripides, Alcestis.
	Latin Prose.	Greek Prose.
		Herodotus, Selections.
II.	Sallust, Catiline.	Thucydides, Book I.
	Livy, Book I.	Plato, Apology, Crito, Ion.
	Plautus, Captivi.	Euripides, Medea.
	Terence, Phormio.	Aeschylus, Prometheus, or
	Virgil, Aeneid IV, VI, VIII.	Sophocles, Antigone.
	Latin Prose.	Greek Prose.
	Ancient History.	Ancient History.



- |  |  |
|--|--|
| III. Cicero, Selected Letters.                                   | Plato, Republic I-IV, X.   |
| Cæsar, <i>Bellum Civile</i> (one book).                          | Herodotus, Book VIII.  |
| Vergil, <i>Bucolics</i> 1, 4, 6, 8, 10, <i>Georgics</i> 1, 4.    | Thucydides, Book II.   |
| Roman Elegiac Poets, Selections.                                 | Sophocles, <i>Oedipus Tyrannus</i> .                             |
| Latin Prose.   | Demosthenes, <i>Philippics</i> , I-II.                           |
| Ancient Philosophy <i>or</i> Greek and Latin Historical Grammar. | Aristophanes, <i>Clouds</i> .                                    |
|  | Greek Prose.   |
|  | Ancient Philosophy <i>or</i> Greek and Latin Historical Grammar. |
| IV. Tacitus, <i>Annals</i> I, IV, XV, 38-74.                     | Thucydides, Books VI, VII.                                       |
| <i>Dialogus</i> .  | Aristotle, <i>Politics</i> (one book); <i>Poetics</i> .          |
| Lucretius, Book V.   | Aeschylus, <i>Agamemnon</i> .                                    |
| Horace, <i>Satires</i> I. 4, 5, 6, 10; II. 4, 6.                 | Aristophanes, <i>Birds</i> ( <i>or</i> <i>Frogs or Peace</i> ).  |
| Epistles I. 6, 7, 19, 20; <i>Ars Poetica</i> .                   | Theocritus, <i>Selections</i> .                                  |
| Latin Prose.   | Greek Prose.   |

## GRADUATE COURSES IN CLASSICS

See page 499.

## DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

PROFESSORS:—{ STEPHEN LEACOCK.  
J. C. HEMMEON.

ASSOCIATE PROFESSOR:—J. P. DAY.

ASSISTANT PROFESSOR:—JOHN CULLITON.

SESSIONAL LECTURER:—EUGENE FORSEY.

GRADUATE FELLOWS:—  
1930-31

{ B. CAPLAN.  
A. FEINER.  
L. L. RUBIN.  
VERA SHLAKMAN.  
A. BERMAN.  
S. W. WILLIS.  
H. D. WOODS.

1. *Elements of Political Economy*. Second Year.  
Mon., Wed., Fri., at 11.

Professors Hemmeon and Culliton and Mr. Forsey.



2. **Elements of Political Science.** Second Year.  
Mon., Wed., Fri., at 12.....Professor Hemmeon and Mr. Forsey.
3. **History of Economic and Political Theory.** Third Year.  
First term; Mon., Wed., Fri., at 2.....Professor Leacock.
4. **Economic Aspects of the British Empire.** Third Year.  
Second term; Mon., Wed., Fri., at 2.....Professor Leacock.
5. **Labour Problems.** Third Year.  
First term; Tu., Th., Sat., at 12.....Professor Hemmeon.
6. **Money and Banking.** Third Year.  
Second term; Mon., Wed., Fri., at 10.....Professor Day.
7. **Canada: Industrial and Economic Problems.** Third Year.  
First term; Tu., Th., Sat., at 11.....Professor Culliton.
8. **The Government of Canada.** Third Year.  
Second term; Mon., Wed., Fri., at 3.....Mr. Forsey.
9. **Contemporary Economic Theory.** Fourth Year.  
First term; Tu., Th., Sat., at 11.....Professor Hemmeon.
10. **Contemporary Political Theory.** Fourth Year.  
Second term; Mon., Wed., Fri., at 3.....Professor Leacock.
11. **International Trade and Trade Policy.** Fourth Year.  
First term; Mon., Wed., Fri., at 10.....Professor Day.
12. **Public Finance.** Fourth Year.  
Second term; Tu., Th., Sat., at 12.....Professor Hemmeon.
13. **Transportation.** Fourth Year and Graduate Students.  
Second term; Mon., Wed., Fri., at 9.....Professor Culliton.
14. **Social and Industrial Legislation.** Fourth Year and Graduate Students.  
First term; in alternate years. (Not given in 1931-32.)  
Mon., Wed., Fri., at 12.....
15. **Great Britain: Economic and Fiscal Problems.** Fourth Year and Graduate Students.  
Second term; in alternate years. (Not given in 1931-32.)  
Mon., Wed., Fri., at 12.....Professor Day.



16. **Economic Factors in the Evolution of Society (till 1800).**  
Fourth Year and Graduate Students.  
First term; in alternate years. (Given in 1932-33.)  
Mon., Wed., Fri., at 12.....
17. **Economic Factors in the Evolution of Society (after 1800).**  
Fourth Year and Graduate Students.  
Second term; in alternate years. (Given in 1932-33.)  
Mon., Wed., Fri., at 12.....Professor Day.

For the courses in Economics and Political Science given in the School of Commerce, see Announcement of the School of Commerce.

#### HONOUR COURSES

Students taking the full Honours in Economics and Political Science take in their Second Year courses 1 and 2, together with three other courses approved by the Department; in their Third Year the courses indicated above, together with one approved course from another department, and in their Fourth Year the courses indicated above, together with a course and a half approved by the department.

Students taking half their Honours in another department (see page 50) may be granted honours in Economics (without Political Science) by taking courses 1, 2, 5, 6, 7, 8, 9, 11, 12, 13, or they may be granted honours in Political Science (without Economics) by taking courses 1, 2, 3, 4, 5, 6, 7, 8, 10, 12.

Students in the Department of Economics and Political Science are expected to spend a considerable proportion of their time in the preparation of class reports, essays, etc., in addition to the lectures and ordinary reading.

#### GRADUATE COURSES

See page 502.

#### DEPARTMENT OF EDUCATION

PROFESSORS:— $\left\{ \begin{array}{l} \text{F. CLARKE.} \\ \text{SINCLAIR LAIRD.} \end{array} \right.$

At present two courses in Education are offered, the first being taken normally in the Third Year and the second in the Fourth Year. Graduate students may take the two courses simultaneously in one year. The two courses if taken by graduates can now be counted as part of the requirement for an M.A. degree in Education. For particulars of requirements for this degree see the announcement of the Faculty of Graduate Studies.



*Course 1* is a general study of the Principles of Education amplified and illustrated by the study of certain selected periods of the History of Education and certain selected texts from the classics of Education. The course will be found suitable as a general university study for students who do not intend to become teachers, as well as for those who wish to qualify by taking the High School Diploma.

*Course 2* is more technical and is designed to provide training in the fundamentals of teaching method and school organization. It presupposes some knowledge of school routine and those who pursue it will be expected to relate its content to the teaching practice which is part of the requirement for the High School Diploma.

An outline of each course is given below:—

**I. General Principles of Education. Third Year.**

- (a) The Education Process; Educational Ends; Social Implications of Education; the School; Forms of School; School Systems; Modern Trends in Education.
  - (b) History of Education; Greek Education; the Renaissance; Modern Education from Rousseau; studies of (i) Plato's "Republic," (ii) Milton's "Tractate of Education," (iii) Rousseau's "Emile," (iv) Spencer's "Education."
- Tu., Wed., Fri., at 4.

**II. Method and School Organization. Fourth Year.**

- (a) Theory of Instruction; Principles of Method; Construction and Adjustment of Curricula; Types of Teaching Procedure.
  - (b) Methods of Teaching School Subjects.
  - (c) School Organization and Administration, including a survey of the School Law and Regulations of the Province of Quebec.
  - (d) Control and Discipline.
- Mon., at 4, Thurs., at 2 and 4.

Courses 1 and 2 are required for the High School Diploma of the Province of Quebec, together with (a) fifty half-days of practice teaching and criticism lessons under expert supervision; and (b) special courses in methods of teaching French, music and drawing.

**Seminar for Graduate Students.**

A weekly seminar is held (hour to be arranged) for graduate students. In 1931-32 this seminar will concern itself with some outstanding problems in the work and organization of the Protestant school system of the Province of Quebec.



## THE TRAINING OF TEACHERS

## THE HIGH SCHOOL DIPLOMA

This diploma is valid only in the Protestant Schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this diploma.

Each candidate must (a) make application upon the authorized forms, (b) be a British subject or satisfy the General Board that he has begun the necessary proceedings to become such, (c) submit a physician's certificate to show that he is in good health and free from physical and mental defects that would seriously interfere with his usefulness as a teacher, (d) be a graduate of some Canadian or other British University, with degree courses as follows:—

(a) *Academic*. Courses for two years in the following subjects:—

English, French and three of the following: Latin, History, Mathematics, a science subject.

It is provided, however, (i) that a candidate may omit in the Second Year any three of these subjects, except English, in which he has taken at least 60% in the First Year, (ii) that a candidate taking an Honour course is exempt from these requirements after the First Year.

The Regulations governing the award of the High School Diploma require that candidates shall secure the approval of the Department of Protestant Education for the first two years of the B.A. Course before entering upon Course 1 in Education in the Third Year.

Failure to secure such approval may involve refusal by the Department to recognize for the purposes of the Diploma the work done in both the Courses 1 and 2.

After the completion of the Second Year, candidates should apply to the Registrar of the University for a detailed certified record of the work they have done. This record should then be submitted to the Education Department at Quebec for approval as qualifying the candidate to proceed to Courses 1 and 2 in Education as part of the requirement for the High School Diploma.

Special High School Certificates qualifying to teach special subjects in which honour courses have been taken in the University may be issued by the Central Board of Examiners, but they shall not be valid for the headship of high schools unless endorsed for this purpose by the Director of Protestant Education, on the recommendation of the Central Board.

N.B.—Candidates may be permitted to qualify for the High School Diploma under the Regulations that were in force when they entered, with the benefit of any amendments made subsequently.



*(b) Professional.*

Candidates for High School Diplomas must also take at least two full University courses in the Theory and Practice of Education; all in accordance with a syllabus of studies submitted by the University authorities and approved by the Protestant Committee of the Department of Education.

Graduates in Arts and Science, with the academic standing in the First and Second Years prescribed above, may also qualify for High School Diplomas by taking a year of post graduate studies in the University, with the major part of the candidate's work taken in the Department of Education; all in accordance with the syllabus of studies approved by the Protestant Committee. Candidates who can do so are urged strongly to defer training for the High School Diploma until they have their bachelor's degree. The University has in contemplation a scheme of training under which this will be the general rule. Due notice will be given of the coming into operation of any such scheme. All candidates who can do so, should follow this procedure, even though it is not yet required by regulation.

In the meantime, however, the following will be accepted as meeting the professional requirements:—

(1) The successful completion of courses 1 and 2 in the Department of Education, during the last two years of their undergraduate course, Course 1 in the Third Year and Course 2 in the Fourth.

(2) Successful completion of special courses in methods of teaching French, Music and Drawing. These courses are held in the Montreal High School on Tuesday afternoons throughout the session. Fee, \$20.00, payable to the Bursar, McGill University.

(3) Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board of Examiners).

The course in Practice Teaching is at present divided into two parts. The first part is taken in September preceding the Fourth Year. Education Course 1 is a prerequisite. The second part of the course in Practice Teaching is taken in May and June after the Fourth Year examinations.

ELEMENTARY, INTERMEDIATE AND KINDERGARTEN DIPLOMAS

The training for these diplomas is given at Macdonald College. (See Macdonald College Announcement.)



## COURSES FOR TEACHERS OF SPECIAL SUBJECTS

**French.** A summer school for teachers of French leading to a Specialist Diploma recognized by the Provincial Department of Education.

**Kindergarten Assistants.** A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Department of Education. This diploma is accepted for entrance to the Kindergarten class at Macdonald College.

**Physical Education.** A two-years' course leading to a diploma for Teachers in Physical Education recognized by the Provincial Department of Education. (This course is given under the Department of Physical Education.)

## DEPARTMENT OF ENGLISH

PROFESSOR:—CYRUS MACMILLAN.

ASSOCIATE PROFESSORS:— $\left\{ \begin{array}{l} \text{GEORGE W. LATHAM.} \\ \text{HAROLD G. FILES.} \end{array} \right.$

ASSISTANT PROFESSOR:—A. S. NOAD.

LECTURER:—MARY MACKENZIE.

LECTURER AND DIRECTOR IN PLAY PRODUCTION:—LEONA GRAY.

ASSISTANTS:— $\left\{ \begin{array}{l} \text{A. R. MCBAIN.} \\ \text{ESTHER ENGLAND.} \\ \text{FREDA MACGACHEN.} \\ \text{NORAH GLASSFORD.} \\ \text{BARBARA ULRICHSEN.} \\ \text{C. H. RITTENHOUSE.} \\ \text{DONALDA PUTNAM.} \\ \text{MARY O. HILL.} \\ \text{DAVID L. TOUGH.} \end{array} \right.$

## 1. English Composition.

Sat., at 12.....Professor Noad, Miss Mackenzie and Assistants.  
Professor Noad will have the general direction of this course.  
Section and weekly conference hours to be arranged.



**2. English Literature.**

General Course from Anglo-Saxon times to the present day.  
 Tu., Th., and, at the pleasure of the instructor, Sat. at 12.

Professor Macmillan and Assistants.

Weekly conference hours to be arranged. Mr. McBain will have the general direction of the tutorial conferences.

**1A. English Composition.**

One hour a week in the first term of the Second Year.

All students who fail in English 1 are required to take this course.

Professor Noad and Assistants.

**3. English Composition.**

Half course. An advanced course open to a limited number of students who desire more practice in writing after having completed English 1. Application for permission to take this course should be made at the beginning of the session.

Hours to be arranged.....Professor Files.

**4. English Literature in the Nineteenth Century.**

Mon., Wed., Fri., at 3.....Professor Latham.

**5. Spenser and Milton.**

Second term; Tu., Th., Sat., at 12.....Professor Latham.  
 (Not given in 1931-32; given in 1932-33.)

**6. Shakespeare (Six Plays).**

Mon., Wed., Fri., at 10.....Professor Macmillan.  
 May be taken in two successive years.

**7. English Literature in the Eighteenth Century.**

Mon., Wed., Fri., at 12.....Professor Files.  
 (Not given in 1931-32; given in 1932-33.)

**8. Argumentation, Debating, and the Forms of Public Address.**

Tu., 3 to 5; conference hours to be arranged.....

Professors Latham and Noad and Assistants.

The attendance in this course is limited to 40 men. (Not given in 1931-32.)

**9. English Poetry from 1798 to the present time.**

Mon., Wed., Fri., at 11.....

Professors Macmillan and Noad and Assistants.

(Not given in 1931-32; given in 1932-33.)



10. **The English Novel, from Richardson to the present time, with some reference to foreign work and to related literary types.**  
Tu., Th., Sat., at 11.....Professor Files.
11. **English Literature, exclusive of Drama, from Tottel's Miscellany to the Restoration.**  
Second term; Mon., Wed. and Friday, at 12.....Professor Noad.  
(Given in 1931-32; not given in 1932-33.)
12. **Anglo-Saxon; English Literature up to the Norman Conquest.**  
Mon., Wed., Fri., at 2.....Professor Latham.
13. **Technique of the Drama.**  
Theory and practice. Play structure; characterization; dialogue; an examination of specimen plays of various periods. Lectures, conferences and practical work in play production on the stage in Moyse Hall, designing, lighting, scenic effects, etc.  
Tu., Th., at 10 a.m.; laboratory periods Mon., Tues., Wed., Thurs., Fri., 3.30 to 5.30 p.m.  
Miss Gray, Professors Macmillan and Files and Assistants.  
Courses 3, 6, 7 and 19 are recommended to students taking this course.
14. **Chaucer.**  
First term; Tu., Th., Sat., at 12.....Professor Latham.  
(Not given in 1931-32; given in 1932-33.)
15. **American and Canadian Literature.**  
Second term; Mon., Wed., Fri., at 11.....  
Professors Macmillan and Latham.  
(Given in 1931-32; not given in 1932-33.)
16. **Comparative Literature.**  
The influence of English Literature upon the continent of Europe in the 18th and 19th centuries.  
Tu., Th., Sat., at 9.....Professor Noad.  
(Not given in 1931-32; given in 1932-33.)
17. **Comparative Literature.**  
The literary influence of the Continent upon England since 1600; a study of typical forms.  
Tu., Th., Sat., at 9.....Professor Noad.  
(Not given in 1932-33.)



18. **The English Bible.**  
First term; Tu., Th., Sat., at 9.....  
Professor \_\_\_\_\_ and Assistants.  
(Not given in 1931-32.)
19. **English Literature from the Restoration to the Death of Dryden.**  
First term; Mon., Wed., Fri., at 12.....Professor Files.  
(Given in 1931-32; not given in 1932-33.)
20. **Early English: English Literature from 1200 to 1450.**  
Tu., Th., Sat., at 12.....Professor Latham.  
(Given in 1931-32; not given in 1932-33.)  
Open only to students who have taken Course 12, or its equivalent.
21. **Political Satire Since the Renaissance.**  
First term; Mon., Wed., Fri., at 11.....Professor Macmillan.  
(Given in 1931-32; not given in 1932-33.)
22. **An Advanced Course in the Technique of the Drama.** Play-production; individual research and practical work. Special lectures will be given by guest lecturers. Prerequisite: English 13 or its equivalent.

The idea of the course is to provide for students who, in English 13 or its equivalent, have shown special aptitude for the work, an opportunity to gain further experience. Members of the class work as leaders of student groups in production, make-up, designing, scene-making, costuming, etc. The attendance in this course is limited to twelve. Application for admission must be made at the beginning of the session, Mon., Wed., Fri., 12. Laboratory periods, Mon., Tues., Wed., Thurs., Fri., 3.30 to 5.30 p.m.

Miss Leona Gray, and other members of the Department.

#### NOTE

Courses 4, 6, 7, 15 are open to students in the Second Year.

Courses 3, 5, 8 to 14 inclusive, and 16 to 22 inclusive are open to students in the Third and Fourth Years.

#### HONOUR COURSES

Second Year:—Two courses selected from 4, 6, 7, 8, 15, 18, 19.

Third Year:—Four courses.



Fourth Year:—Four courses not taken in the Third Year; Course 11 in the Graduate School may be taken, with the permission of the Department.

Courses 5, 6, 12, 14 and 20 are compulsory for Honours.

#### ENGLISH REQUIREMENTS FOR THE HONOUR COURSES IN ENGLISH AND LATIN, ENGLISH AND FRENCH, AND ENGLISH AND GERMAN.

Second Year:—Consult the Head of the Department.

Third Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 22, not previously taken.

Fourth Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 20, not previously taken. (Course 12 and one course selected from 5, 14, and 22 are compulsory.)

#### ENGLISH REQUIREMENTS FOR HONOURS IN ENGLISH AND OTHER SUBJECTS

Second Year:—Consult the Head of the Department.

Third Year:—Courses aggregating six hours, chosen from 4 to 22, not previously taken.

Fourth Year:—Any courses aggregating six hours, chosen from 4 to 22, not previously taken.

One course selected from 5, 12, 14 and 20 is compulsory in either the Third or the Fourth Year.

#### GRADUATE COURSES

See page 505.

#### DEPARTMENT OF GEOLOGICAL SCIENCES

PROFESSOR:—JOHN J. O'NEILL.

PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM.

PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{J. E. GILL.} \\ \text{F. F. OSBORNE.} \end{array} \right.$

LEROY FELLOW IN GEOLOGY:—PETER PRICE.

GRADUATE ASSISTANTS:— $\left\{ \begin{array}{l} \text{JOHN T. WILLIAMSON.} \\ \text{NORMAN R. SCHINDLER.} \\ \text{F. C. BUCKLAND.} \end{array} \right.$



1. **General Geology** (Eng. 141). A general survey of the whole field of geology.

(a) *Mineralogy and Petrology*.—The common rock-forming and economic minerals and more important rocks.

(b) *Dynamical and Structural Geology*.—The processes of vulcanism; volcanoes, geysers, etc.; disintegration of the rocks to form soils; denudation of the earth's surface under atmospheric agencies, rain, running water, glaciers, etc., and the deposition of the materials as sediments; mountain building, earthquakes, folding, faulting, metamorphism, etc.

(c) *Historical Geology*, including a description of the fauna and flora of the earth during the successive periods of its history, as well as the economic aspects of the subject.

The lectures are illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides.

In addition to the lectures there are excursions on Saturday mornings for five or six weeks after the term opens; students attending these are excused from any classes which conflict with the excursions. One hour laboratory.

Mon., Wed., and Fri., at 9.....Professor Clark.

*Text-book*:—Pirsson and Schuchert, "Text-book of Geology," 2 vols.

2. **Physiography and Natural Resources of Canada.**

The first part of the course deals with the development and significance of land forms. This is followed by a survey of the whole of Canada with descriptions and interpretations of the main topographic features. The relationships between geology, topography and the distribution of natural resources are brought out, as well as the influence of the physiography on the economic development of the country. The course is illustrated by lantern slides, maps and observations in the field.

Tu., at 12, and one laboratory period to be arranged to suit the students.....Professor Gill.

3. **Stratigraphy** (Eng. 151).

This course consists of two parts. (1) Sedimentation; a consideration of the source and origin of sedimentary rocks, the significance of their structure and textures, and the structural relationships of strata;



(2) Correlation; the means by which it is achieved, index fossils, principle of superposition, stratigraphic continuity, etc.; also the subjects of stratigraphic nomenclature and paleogeography. Brief reference is made to economic products of sedimentary rocks.

First term; Mon., Fri., at 11; one hour laboratory, and two full days field work during October. One half course.

Prerequisite:—1 ..... Professor Clark.

4. **Geology of Canada** (Eng. 149).

A general description of the geology and mineral resources of the Dominion.

First term; Wed., at 11.

Prerequisite:—1 ..... Professor O'Neill.

5. **Mineralogy** (Eng. 142).

The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc., and the principles of classification.

Tu. and Th., at 9..... Professor Graham.

6. **Determinative Mineralogy** (Eng. 143).

Laboratory practice in blow-pipe analysis and its application to the determination of mineral species.

Two laboratory periods during the first term; Th., Fri, 2 to 5.  
Professor Graham.

7. **Practical and Field Geology** (Eng. 147).

Study of the structure and metamorphism of the earth's crust with reference to folding, faulting, etc. and to igneous intrusions in their bearing upon the occurrence of valuable mineral deposits; discussion of the methods employed in carrying out geological surveys for various purposes and in the construction and interpretation of geological maps and sections.

Lectures, laboratory, and field mapping.

First term; Th., at 11, and Sat. mornings, 9-12. Professor Gill.

*Reference:*—"Structural and Field Geology" by Jas. Geikie, D. Van Nostrand & Co., N.Y., 1905; "Handbook for Field Geologists" by Hayes; "Field Geology" by F. H. Lahee, McGraw Hill Book Co., N.Y., 2nd edition, 1923.



8. **Ore Deposits** (Eng. 148).

The nature, mode of occurrence and classification of ore deposits; typical occurrences are described and their origin discussed. The more important non-metallic minerals, *e.g.*, fuels, clays, building stones, etc., are similarly treated, as well as questions of water supply, artesian wells, etc.

Second term; Tu., 10 to 12, Wed. and Th., at 11.

Prerequisite:—147.....Professor O'Neill.

*References:*—"Mineral Deposits," Lindgren; "Economic Aspects of Geology," Leith; "Geology of Petroleum," Emmons; "Ore Deposits of the U.S. and Canada," Kemp; Publications of the Geological Survey of U.S. and of Canada.

9. **Optical Mineralogy and Crystallography** (Eng. 151).

Methods of determining the various optical properties of minerals, Optical chapters in Miers' "Mineralogy" and Dana's "Text-Book of Mineralogy"; Tuton's "Crystallography and Practical Crystal Measurement"; Winchell's Elements of Optical Mineralogy, Vols. I and II.

One hour and three hours laboratory period; first or second term.

Hours to be arranged.....Professor Graham.

10. **Petrography** (Eng. 146).

The modern Petrographic methods are described, and the classification and description of rocks is then taken up.

In addition to the lectures, one period a week is devoted to practical work in the petrographical laboratory. Thin sections and hand specimens of rocks and polished surfaces of ores are examined.

*References:*—"Rocks and Rock Minerals," by Pirsson revised by Knopf; "Minerals and the Microscope," by Smith.

First term; Tu., at 10; laboratory, first term, Fri. 10-1; second term, Sat., 9-12.....Professors Graham and Osborne.

12. **Palæontology** (Eng. 152).

The development of ideas concerning the origin of fossils. A brief survey of systematic palæontology, in which the fossils of the major biological groups are treated in order. The economic importance of palæontology; the meeting place of biology and geology; the bearing of palæontology upon the doctrine of evolution.

Second term; Mon., Wed., at 11; laboratory, Wed., 2-5.

Prerequisite:—1.....Professor Clark.



**13. Geological Colloquium.**

Papers on a great variety of geological topics are assigned to students for review and concise presentation as a preface to general discussion. Each year, this course must be taken by all graduate students in Geology.

One hour per week (to be arranged).

NOTE.—Subjects normally grouped to make full courses; 2 and 4; 3 and 12; 5 and 6; 7 and 8; 9 and 10.

**HONOUR COURSES**

Second Year:—Geology 1, 5, 6; Botany 1; Zoology 1; Chemistry 3a; German 4 (if French has already been taken).

Third Year:—Geology 3, 4, 9, 12; Chemistry 3b2; Botany 3; and one or more selected courses as advised by the Department.

Fourth Year:—Geology 2, 7, 8, 10, 13; Chemistry 4; and one or more selected courses as advised by the Department.

NOTE.—The selected courses in the Third and Fourth Years permit the student to concentrate on some branch of Geology in which his particular interest lies.

**GRADUATE COURSES**

See page 512.

**DEPARTMENT OF GERMANIC LANGUAGES**

PROFESSOR:—H. WALTER.

ASSOCIATE PROFESSOR:—W. L. GRAFF.

LECTURER:—MISS B. MEYER.

**1. German Language. (Beginners' B.A. Course.)**

Tu., Th., Sat., at 9.....

*Texts*:—Van der Smitten and Fraser, High School German Grammar (Copp, Clark Co.); Guerber, Märchen und Erzählungen, Vol. I (Heath); Nichols, Easy German Reader (Holt).



**2. German Language.**

Tu., Th., Sat., at 10.....Miss Meyer.

*Texts:*—Van der Smissen and Fraser, High School German Grammar (Copp, Clark Co.); Hauff, Die Karavane (Holt); Keller, Kleidermachen Leute (Heath); Fulda, Talisman (Holt); Collmann, Easy German Poetry (Ginn, Ed. 1913); Horning, German Composition (Copp, Clark Co.).

Private Readings:—

Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (Am. B Co.).

**3. German. (Beginners' B.Sc. Course.)**

Tu., Th., Sat., at 10.....Professor Graff.

*Texts:*—Van der Smissen and Fraser, High School German Grammar (Copp, Clark Co.); Guerber, Märchen und Erzählungen, Vol. I. (Heath); Nichols, Easy German Reader (Holt).

**4. German Science Reading Course. First or Second Year.**

A course in reading Science German is given for students who have matriculated in this language or have taken it in the First Year.

Mon., Wed., Fri., at 5.....Professor Graff.

*Texts:*—Greenfield's Technical and Scientific German (Heath); Ihrig's Word Formation and Syntax (Heath).

**5. German Language. Second Year.**

Section A; Mon., Wed., Fri., at 11.....

Professor Walter and Miss Meyer.

*Texts:*—Van der Smissen, German Grammar; Jagemann, Materials for German Prose Composition (Holt); Storm, Immense (Ginn); Porterfield, Modern German Stories (Heath); Schiller, Wilhelm Tell (Holt).

Private Readings:—

Riehl, Der Fluch der Schönheit (Heath); Mörike, Mozart auf der Reise nach Prag (Heath).

Section B; Mon., Wed., Fri., at 10.....

Professor Walter and Miss Meyer.

*Texts:*—Van der Smissen, German Grammar; Jagemann, Materials for German Prose Composition (Holt); Diamond and Schomaker, Lust und Leid (Holt); Freytag, Die Journalisten (Ginn); Schiller, Maria Stuart.



**7. German Language. Second Year. Honour Course.**

Mon., Wed., Fri., at 12.....Professor Graff.

*Texts:*—Jagemann, Materials for German Prose Composition (Holt); Goethe, Egmont (Holt); Schiller, Piccolomini; Meyer, Jürg Jenatsch (Heath); Nichols, Modern German Prose (Holt).

*Private Readings:*—

Heine, Harzreise (Ginn); Goethe, Sesenheim (Holt).

No student who in his First Year took German 1 can take course 7 unless he has completed the summer work as given under course 1.

Students may begin Honours in German in their Third Year, provided they have obtained a First Class in either 5A or 5B.

Honour students in German are strongly recommended to take, in their Second or Third Year, as one of their general courses, course 1 of the Department of Philosophy (Logic and Introduction to Philosophy).

N.B.—In order to be admitted to the following courses of the Third and Fourth Years a student must know German well enough to understand lectures delivered in German and express himself in German with some degree of fluency and correctness.

**8. German Literature (Nineteenth Century).**

Mon., Wed., Fri., at 9 (given in 1932-33).....Professor Walter.

*Texts:*—Kleist, Prinz Friedrich von Homburg (Ginn); Grillparzer, Sappho (Ginn); Hebbel, Agnes Bernauer; Heine, Prose (Oxford Univer. Press); Heine, Verse; Hauptmann, Die versunkene Glocke; Keller, Sieben Legenden; Stroebe and Whitney, Geschichte des deutschen Literatur (Holt); Whitney and Stroebe, Exercises in German Syntax and Composition (Holt Co.).

**9. German Literature (Eighteenth Century).**

Mon., Wed., Fri., at 9.....Professor Walter.

*Texts:*—Lessing, Emilia Galotti (Ginn); Goethe, Iphigenie (Pitt Press); Schiller, Wallenstein; Lessing, Hamburgische Dramaturgie; Stroebe and Whitney, Geschichte der deutschen Literatur (Holt); Whitney and Stroebe, Exercises in German Syntax and Composition (Holt Co.).

## HONOUR COURSES

**10. Mediæval German Literature and Philology.**

Mon., at 4 (given in 1932-33).....Professor Graff.

*Texts:*—Bachmann, Mittelhochdeutsches Lesebuch (Fæsi and Beer, Zürich); Behaghel, Die Deutsche Sprache (Freytag, Leipzig).



11. **Entwicklung der deutschen Lyrik**.....Professor Walter.  
One hour. (Given in 1932-33.)
12. **Geschichte des deutschen Trauerspiels**.....Professor Walter.  
Two hours. (Given in 1931-32.)
13. **Composition.**  
One hour.....Professor Walter.  
Mutschmann, Passages for translation into German (Oxford Univ. Press).
14. **Gothic and Introduction to Germanic Philology.**  
One hour.....Professor Latham.  
The German language alone is used in class instruction in courses 5-13, and, in order to obtain honours, candidates must be able to speak German fluently.

## GRADUATE COURSES

See page 516.

## DEPARTMENT OF HISTORY

PROFESSORS:— $\left\{ \begin{array}{l} \text{W. T. WAUGH.} \\ \text{C. E. FRYER.} \end{array} \right.$

ASSOCIATE PROFESSOR:—E. R. ADAIR.

ASSISTANT PROFESSOR:—T. W. L. MACDERMOT.

ASSISTANTS:— $\left\{ \begin{array}{l} \text{V. C. WANSBROUGH.} \\ \text{S. L. POLLARD.} \\ \text{A. WATT.} \end{array} \right.$

## COURSES FOR GENERAL STUDENTS

1. **General History of Europe, from the Break-up of the Roman Empire to 1914.** First Year.

Tu., Th., Sat., at 11.....Professors Waugh and MacDermot.

This class will be divided into two sections, one of which will be for prospective Honour students and others of proved proficiency in the subject.



2. **General History of North and South America.** Second Year.  
Mon., Wed., Fri., at 9.....Professor Adair.
3. **History of the British Empire.** Second Year.  
Tu., Th., Sat., at 10.....Professor MacDermot.  
With the consent of the Department, this course may be taken by  
Third-Year students.
4. **History of Canada.** Third Year.  
Tu., Th., Sat., at 9.....Professor MacDermot.  
With the consent of the Department, this course may be taken by  
Fourth-Year students.
5. **British Industrial Democracy, 1784-1914.** Fourth Year.  
Mon., Wed., Fri., at 9.....Professor Fryer.  
With the consent of the Department, this course may be taken by  
Third-Year students.
6. **History of Europe, 1789-1914.** Fourth Year.  
Tu., Th., Sat., at 10.....Professor Fryer.

#### COURSES SPECIALLY FOR HONOUR STUDENTS

Prerequisite:—History 1.

7. **Mediaeval History and Institutions.** Second Year.  
Tu., Th., Sat., at 10.....Professor Waugh.
8. **History of Modern Europe to 1789.** Third Year.  
Mon., Wed., Fri., at 12.....Professor Adair.
9. **English Constitutional History.** Fourth Year.  
Tu., Th., Sat., at 9.....Professor Waugh.
10. **History of Economic and Social Conditions, with special  
reference to England.** Fourth Year.  
Three hours, at times to be arranged.....Professor Adair.

#### Special Subjects:—

Joan of Arc and her Times.  
The Reign of Charles I.



William Pitt and the Conquest of Canada.  
 England, 1832-1846: a study in political reconstruction.  
 The Genesis of the British Parliamentary Labour Party.  
 Roman Law.  
 A Period or Aspect of Ancient History.\*

NOTE.—A choice of one of these special subjects for continuous study by Honour students during their Third and Fourth Years is made in consultation with the Chairman of the Department.

Students taking Honours in History will take the following courses in 1931-32:—

Second Year: History 2 and 7.

Economics 2.

Approved courses in French *or* German *and* in Latin *or* German.

Third Year: History 4 and 8.

An approved course in Philosophy, Economics, Latin, French *or* German. One of the special subjects in History.

Fourth Year: History 6, 9 and 10.

Continuation of special subject begun in 1930-31.

Students taking Honours in History and another subject will take the following courses in History in 1931-32:—

History Courses:—

Second Year: History 2 and 7.

Third Year: History 4 and 8.

Fourth Year: History 9 and *either* 6 *or* 10.

NOTE.—In addition to the examination on the subjects taken up in the last year, Fourth Year Honour students have a general examination paper on the History studied by them in their four years.

#### GRADUATE COURSES

See page 517.

\* For courses in Ancient History, see under the Department of Classics.



DEPARTMENT OF MATHEMATICS

PROFESSORS  
and  
JOINT CHAIRMEN:—  
C. T. SULLIVAN.  
N. B. MACLEAN.

ASSOCIATE PROFESSORS:—  
A. H. S. GILLSON.  
W. L. G. WILLIAMS.

ASSISTANT PROFESSORS:—  
H. TATE.  
F. M. WOOD.  
DAVID HOWAT.

LECTURER:—G. PALL.

1. Mathematics. (For First Year students.)

Geometry and Trigonometry. Three hours, first term.

Algebra. Three hours, second term.

Five Sections: Professor Gillson (two sections), Prof. Howat (two sections), Professor Wood (one section).

An advanced section will be in charge of Professor Gillson.

*Text-books:*—Hall and Knight, Elementary Trigonometry; Carslaw, Plane Trigonometry; Hall and Stevens, School Geometry, Parts I-VI; Hall's School Algebra, Parts I, II, III.

First or Second class standing in course 1 is necessary for course 3 or 4.

1B. Practical Mathematics.

This is an elementary course giving simple methods of dealing with numerical data arising in Biology, Economics, Sociology and allied subjects, and including such topics as the use of graphical methods, tables, averages, approximations and elementary statistics.

Two lectures and one tutorial weekly during first term (time to be arranged).....Prof. Howat.

2. Elementary Analysis. (For Second Year students.)

This course is designed to meet the continuation requirements of students who have passed ordinary Mathematics 1, but whose standing does not permit them to take Mathematics 3 or 4.

Mon., Wed., Fri., at 10.



3. **Calculus.** (An elementary course for Second Year and other qualified students.)

Tu., Th., Sat., at 12.....Professor Sullivan.

*Text-book:*—Lamb, Infinitesimal Calculus.

4. **Algebra and Analytical Geometry.** (For Second Year and other qualified students.)

Mon., Wed., Fri., at 10.....Prof. Howat.

*Text-book:*—C. Smith, Conic Sections.

A knowledge of courses 3 and 4 is a prerequisite for courses 6, 7, 8.

Ordinary students taking Mathematics as a continuation subject are advised as follows:—Mathematics 3, 4 may be taken in the same year or in different years in any order. After Mathematics 3, 4 have been passed, any of Mathematics 6, 7, 8 may be taken in any order.

5. **Spherical Trigonometry and Astronomy.** (For Second Year and other qualified students.)

Spherical Trigonometry; One hour, first term.....Prof. Howat.

Astronomy; Two hours, second term.....Professor Gillson.

*Text-books:*—Murray, Spherical Trigonometry; Barlow and Bryan, Astronomy (London University Tutorial Press); Moulton's Astronomy.

This course can be combined with Physics 4 to form a three-hour course for the year.

6. **Analytical Geometry of Three Dimensions; Curve Tracing.** (For Third Year and other qualified students.)

Three hours .....Prof. Howat.

*Text-books:*—C. Smith's Solid Geometry; R. T. J. Bell, Geometry of Three Dimensions.

7. **Infinitesimal Calculus and Differential Equations.** (For Third Year and other qualified students.)

Three hours .....Professor Gillson.

*Text-books:*—Lamb, Infinitesimal Calculus; Osgood, Advanced Calculus; Forsyth, Differential Equations (Macmillan); Piaggio, Differential Equations (Bell).

8. **Theory of Equations and Higher Algebra.** (For Third Year and other qualified students.)

Three hours .....Professor Sullivan.

*Text-books:*—Burnside and Panton, Theory of Equations; Fine, College Algebra; Milne, Higher Algebra.



9. **Finite Differences and Theory of Probability, with applications.** (For Fourth Year and other qualified students.)

Three hours .....Professor Tate.

Course 8 is a prerequisite to course 9.

*Text-books:*—Spurgeon, Institute of Actuaries' Text-book; Borel, Probability; A. Fisher, Probabilities; Henry, Calculus and Probability.

10. **Introduction to the Theory of Functions of a Real Variable.** (For Fourth Year and other qualified students.)

Three hours .....Professor Williams.

*Text-books:*—Hardy, Course in Pure Mathematics (Camb. Univ. Press); Carslaw, Fourier's Series and Integrals.

11. **Introduction to the Theory of Functions of a Complex Variable.** (For Fourth Year and other qualified students.)

Three hours .....Professor Sullivan.

*Text-books:*—MacRobert, Functions of a Complex Variable; Whittaker and Watson, Modern Analysis; Appell and Lacour, Fonctions Elliptiques (Gauthier-Villars).

12. **Modern Higher Algebra.** (For Fourth Year and other qualified students.)

Properties of polynomials; determinants and matrices; theory of forms.

Three hours .....Professor Sullivan.

*Text-book:*—Bôcher, Introduction to Modern Higher Algebra.

Each year courses 6, 7, 8, 10, 11 and either 9 or 12 will be given.

For COURSES IN COMMERCE open to students in Arts, see Announcement of the School of Commerce.

#### HONOUR COURSES IN MATHEMATICS

*Prerequisites:*—High standing in Mathematics 1; Physics 1 or 2; Mathematics 3, 4, and either Mathematics 5 and Physics 4, or Mathematics 42 of Commerce.

*Third Year:*—Courses 6, 7, 8, and a fourth course (in any subject) approved by the Department.

*Fourth Year:*—Course 10 and at least two of courses 9, 11, 12, and a fourth course (in any subject) approved by the Department.



## HONOUR COURSES IN MATHEMATICS AND PHYSICS

Prerequisite:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, 5; Physics 3, 4. (Chemistry and English recommended as other subjects to be chosen.)

Third Year:—Mathematics 6, 7; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8, 9, 10.

## GRADUATE COURSES IN MATHEMATICS

See page 518.

## DEPARTMENT OF ORIENTAL (Semitic) LANGUAGES

PROFESSORS:— $\left\{ \begin{array}{l} \text{C. A. BRODIE BROCKWELL.} \\ \text{G. ABBOTT-SMITH.} \end{array} \right.$

LECTURER:—JULIUS BERGER.

1. Hebrew Grammar and Syntax.  
Mon., Wed., Fri., at 12.....Professor Brockwell.
2. Arabic and Aramaic.  
Mon., Wed., Fri., at 10.....Professor Brockwell.
3. Semitic Social Anthropology and Epigraphy.  
Mon., Wed., Fri., at 11.....Professor Brockwell.
4. Hebrew Text of Job.  
Mon., Wed., Fri., at 9.....Professor Brockwell.
5. The Theories of Mediæval Jewish Philosophers, with some work on their texts.  
Mon., Wed., Fri., at 11.....Mr. Berger.
6. Talmudic Texts.  
Tu., Th., at 10.....Mr. Berger.
7. Literature of the Jewish Hellenists (Selected Greek Texts).  
Mon., Wed., Fri., at 2.....Professor Abbott-Smith.
8. Grammar and Syntax of Jewish Hellenistic Texts.  
Tu., at 12.....Professor Abbott-Smith.



## HONOUR COURSES

Prerequisite:—Hebrew 1 or an equivalent.

Second Year:—Consult the Head of the Department.

Third Year:—2, 3, 4, 5, 7.

Fourth Year:—2, 3, 4, 7 continued; and 6.

## GRADUATE COURSES

See page 525.

## DEPARTMENT OF PHILOSOPHY

PROFESSORS:—

{	IRA A. MACKAY.
	C. W. HENDEL ( <i>Chairman</i> ).
	A. J. D. PORTEOUS.

The courses in Philosophy are of two types—General Courses and Advanced Courses.

The General Courses have several distinct ends in view. They are intended to awaken in students an interest in the ultimate questions of life and to give a discipline in reflective thinking. These courses also interpret to them the subjects of art, literature and science in relation to each other and to philosophy, thus providing a comprehensive view of the field of human knowledge.

Such general courses are *Introduction and Logic*, *Moral Philosophy*, *Greek Philosophy*, and *History of Modern Philosophy*. These courses are available to students of every department of the College.

The advanced courses are devoted to study of fundamental problems either of philosophy proper or of other subjects having philosophical aspects, such as law, politics, the social sciences, and the natural sciences. These courses offer an opportunity for individual research both to scholars in philosophy and to advanced students of other departments who have the requisite training.

The advanced courses are *Modern Logic and Metaphysics*, *Kant and His Influence on Modern Philosophy*, *Political Philosophy*, and the *Seminars on Plato and Aristotle* and *Contemporary Philosophy*.

All courses have, as an essential part of their discipline, one hour a week of independent discussion of the reading, in small groups under the direction of the lecturer.



### 1. Introduction to Philosophy and Logic.

- (a) A careful study of the essentials in Locke, Berkeley, Hume and Kant and their application to general philosophy.
- (b) The elements of Logic, Deductive and Inductive. Exercises in Logic.

Tu., Th., Sat., at 10....Professors MacKay, Hendel and Porteous.

### 2. Moral Philosophy.

A study of moral character and of the various types of ethical principle recognized in Western culture. The first term is devoted entirely to a consideration of the great classics of moral philosophy. The latter part of the second term is spent upon contemporary ethics developed in the light of the modern sciences of man and society. The reading for the whole course comprises: *Plato's Republic*; *Selections from Aristotle*, Hobbes, Spinoza, Rousseau and Kant; Bishop Joseph Butler, *Fifteen Sermons Preached in the Rolls Chapel* (ed. Mathews, Bohn Lib. Bell); J. S. Mill, *Utilitarianism*; W. E. Hocking, *Human Nature and its Remaking*, (Yale University Press); W. Fite: *An Adventure in Moral Philosophy*.

Tu., Th., Sat., at 11 (two lectures and one discussion)....

Professor Hendel.

### 3. Greek Philosophy.

A treatment of the leading philosophies and schools of philosophy from Thales to Aristotle with a briefer survey of the post-Aristotelian schools down to 529 A.D. While the main emphasis is laid on the development of thought, considerable attention is directed to the literary, scientific, social and religious background of fifth and fourth century Greece. Plato and Aristotle are studied in selected portions of their own writings with special discussion of the outstanding problems of their philosophies. J. Burnet's *Greek Philosophy, Part I., Thales to Plato*, forms the basis of reading for the first part of the course, supplemented by his *Early Greek Philosophy* (3rd edition, 1920). Scribner's *Selections from Plato* (R. Demos), and Aristotle (W. D. Ross), and *Plato's Republic* (preferably Davies and Vaughan's translation) are also prescribed. Recommended reading: A. E. Taylor, *Plato; The Man and his Work* (Methuen); *Plato* (Philosophies Ancient and Modern); G. C. Field, *Plato and his Contemporaries* (Methuen); W. D. Ross, *Aristotle* (Methuen).

One long essay is required in each term.

Mon., Wed., Fri., at 12 (two lectures and one discussion)..

Professor Porteous.



**4. History of Modern Philosophy.** (This course is divided into two half courses, (a) and (b).)

A survey of the ideas and philosophies of the period from the Renaissance to the present. The philosophers are interpreted both as individuals and as representative men influenced by and contributing to the opinions and activities of their own times. The lectures aim at giving comprehensive views of the state of thought in the Seventeenth, Eighteenth and Nineteenth Centuries, particularly as regards science and religion, history, politics, and social conditions. The discussions in conference are on the writings of the masters of modern philosophy. *Selections* from Descartes, Spinoza, Leibniz, Locke, Hume, Kant, Hegel and Bergson.

(a) Modern Philosophy Before Kant.

(b) Kant and Subsequent Philosophy.

Tu., Th., Sat., at 12 (two lectures and one discussion)....

Professor Hendel.

**5. Political Philosophy.**

An enquiry into the origin and meaning of modern political ideas, with especial attention to the ideas of law, freedom and political obligation. These conceptions are studied in their application to both the national and the international community. There are occasional lectures to present materials of research not available in books, notably on Jean Bodin, Grotius, Pufendorf, Montesquieu, the Encyclopedists and Rousseau. The reading and reports and discussions are on the political writings of Hobbes, Locke, Rousseau, Kant, Hegel, T. H. Green, and certain contemporaries in various schools of thought in Europe and America.

Prerequisite: Philosophy 2 or 3 or 4.

Students of advanced standing and good record in economic and political science, or any other cognate subject, are permitted to take this course without fulfilling the above prerequisite, but only with the express consent of the lecturer.

Tu., Th., at 4.30 or any other hours that can be arranged....

Professor Hendel.

**6. Modern Logic and Metaphysics.**

(This course is divided into two half courses which can be taken independently.)



## (a) Modern Logic.

Lectures are devoted to the logic of induction and science and comprise the following topics: the validity of inductive inference; analysis of scientific method; law and causation; probability. Thereafter there will be consideration of the more philosophical aspects of logic as treated by Bradley, Bosanquet, Russell, Cook Wilson, Joseph and Johnson, viz., the general character of judgment and inference, types of proposition, negation, class relation, fact and theory, the nature and criterion of truth. The following texts are prescribed: L. S. Stebbing, *A Modern Introduction to Logic* (Methuen) or R. M. Eaton, *General Logic: an introductory survey* (Scribner's); J. S. Mill, *System of Logic*, Book III; J. M. Keynes, *A Treatise on Probability*, Part III; B. Bosanquet, *Essentials of Logic*; B. Russell, *Problems of Philosophy* (Home University Library); H. Poincare, *Science and Hypothesis*, and *Science and Method*.

## (b) Metaphysics.

A study of fundamental problems in the philosophy of Nature, theory of knowledge and metaphysics of the self. The course deals with the general issues of rationalism and empiricism, realism and subjectivism, naturalism and idealism and such specific questions as the nature of space, time, event, substance, relation and cause; the problem of universals; the relation of mind to the body, to nature and to value. A. E. Taylor's *Elements of Metaphysics*; C. D. Broad's *Perception, Physics and Reality* and *The Mind and its Place in Nature*; and J. Laird's *A Study in Realism* and *Problems of the Self* are recommended for collateral reading, but discussion centres upon the modern classical treatment from Descartes to Reid and Kant with frequent reference to the contemporary writings of Bradley, James, Russell, Whitehead and others.

Prerequisite: Philosophy 1 and either 3 or 4.

Two lectures and one discussion a week throughout the year.

One long essay will be required in each term.

Mon., Wed., Fri., at 4.....Professor Porteous.

## 7. Kant and His Influence on Modern Philosophy.

A careful reading of *The Critique of Pure Reason* and of selections from *The Critique of Practical Reason* and *The Critique of Judgment*.

Two hours .....Professor MacKay.



### 8. Plato and Aristotle.

Seminar for advanced students. Selected dialogues of Plato and portions of Aristotle are read and their problems discussed. Standard translations are used, but reference is made to textual and other questions of interpretation.

Selection for 1931-32:—Plato: *Phædo*, *Republic* (Bks. VI, VII), *Parmenides* (first part), *Theætetus*, *Timæus* (portions); Aristotle: *Ethica Nicomachea* (Bks. I-IV, VI, VII, X), *De Anima* (portions).

Professor Porteous.

### 9. Seminar on Contemporary Philosophy.

Studies on Causality in Modern Science and Philosophy. The meaning of the principle of causality will be investigated in Descartes, Galileo, Leibniz, Newton, Malebranche, Hume, Kant, Laplace, Mill, Bergson, and contemporary writings on physics and philosophy.

One meeting a week, two hours.....

Professors MacKay, Hendel and Porteous.

## HONOUR COURSES

Second Year:—Philosophy 1 and Psychology 1.

Third Year:—Three general courses, 2, 3, and 4, and any one full course selected from the recommended list given below.

Fourth Year:—Three advanced courses, and any one full course selected from the following list:—

Psychology 2, 4, 5, 7, 8, 16, 17.

English 6, 7, 9, 10, 16, 17, 19.

History 1, 7.

Sociology 2, 5, 6, 7, 11.

Mathematics 3, 4, 5, 8, 10, 11, 12.

Botany 3.

Economics and Political Science 2, 3, 4, 9 or 10.

For any combined Honour Course the requirements of Philosophy are five full courses, including Philosophy 1.

For Graduate Courses, see page 528.



## DEPARTMENT OF PHYSICS

DIRECTOR:—A. S. EVE.

PROFESSORS:—  
 { H. T. BARNES.  
 L. V. KING.  
 A. N. SHAW.  
 D. A. KEYS.  
 J. S. FOSTER.

ASSOCIATE PROFESSORS:—  
 { A. H. S. GILLSON.  
 H. E. REILLEY.

ASSISTANT PROFESSOR:—W. H. WATSON.

LECTURER IN ASTRO-PHYSICS:—A. V. DOUGLAS.

DEMONSTRATORS:—  
 { D. R. McRAE.  
 D. M. ROBERTSON.  
 R. L. THORNTON.  
 A. H. SNELL.  
 W. K. DUNN.  
 W. LYONS.

INSTRUCTOR IN LABORATORY TECHNIQUE:—H. T. PYE.

## 1. General Course.

Wed. and Fri., at 2; laboratory, Mon., 2-4, or Tu., 4-6, or Wed.,  
 4-6 .....Professor Keys.

*Text-books*:—Kimball's College Physics (Holt); Laboratory  
 Manuscript (Renouf Publishing Co.).

2P. General Course (Advanced). Open to Second Year pre-  
 medical and pre-dental students; also available for other Arts and  
 Science students. (Physics 1 or equivalent, prerequisite.)

Tu., Th., at 3; laboratory, Tu., 4-6.....Professor Reilley.

*Text-books*:—Duff's Text-book on Physics (Blakiston); Labora-  
 tory Manuscripts (Renouf Publishing Co.). *Reference books*:—Daniel's  
 Text-book on Medical Physics (Macmillan); Jones, Electricity and  
 Magnetism (Lewis).

## 2. Heat, Sound and Light. (Engineering 311, Lab. 312.)

Tu., Th., Sat., at 11; laboratory, Mon. or Fri., 11-1, or Wed., 2-4.  
 Professor Shaw.

*Text-books*:—Duncan and Starling's Heat, Light and Sound  
 (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).



**3A. Electricity and Magnetism.** (Engineering 315, Lab. 316.)

Mon., Fri., at 11; laboratory, Fri., 2-4, or Sat., 10-12.

Dean Eve.

*Text-books:*—Hadley's Magnetism and Electricity for Students (1926 ed. Macmillan).

**3B. Statics and Hydrostatics.**

Wed., at 11.....Professor Reilley.

*Text-book:*—Loney's Statics and Dynamics (C.U.P.).

**4. Dynamics.**

Two hours, first term; one hour, second term. (A half course combined with Mathematics 5 to form a three-hour unit); Tu., Th., Sat., at 9.....Dean Eve.

*Text-book:*—Loney's Statics and Dynamics (C.U.P.).

**5A. Properties of Matter.**

One hour. Sat., at 10; laboratory, three hours.—Professor Foster.

*Text-book:*—Newman and Searle, "General Properties of Matter" (E. Benn Co.).

**5B. Statics, Dynamics of a Particle and Rigid Dynamics.**

Tu., Th., at 10.....Professor King.

*Text-books:*—Lamb's Statics and Lamb's Dynamics (C.U.P.).

**6A. Electrical Measurements.** (Graduate A.)

Wed., Fri., at 9; laboratory, Wed., 2-6..Professor W. H. Watson.

*Text-books:*—Terry's Advanced Laboratory Practice in Electricity and Magnetism (McGraw-Hill); Starling's Electricity and Magnetism (Longmans).

**6B. Light.** (Graduate B.) (Replaced by 8B in alternate sessions.\*)

Mon., at 9; laboratory, Mon., 2-5.....

Professor Keys and Dr. Douglas.

*Text-books:*—Edser's Light (Macmillan); Wood's Physical Optics (Macmillan).

**6C. Electricity.** (Engineering 318.)

Mainly for Electrical Engineering students in Applied Science and students in the course in Engineering Physics.

Second term; Tu., Th., at 9.....Professor Keys.

\* Courses 6B and 8B will be given in alternate sessions as follows:—6B in '32-'33, '34-'35, etc., and 8B in '31-'32, '33-'34, etc.



- 7A. Electromagnetic Theory.** (Graduate C.)  
Th., at 11.....Professor Keys.  
*Text-books*:—Pierce's Electric Oscillation and Electric Waves (McGraw-Hill); and Elements of Electricity and Magnetism, by J. J. Thomson (C.U.P.).
- 7B. Mathematical Physics.** (Graduate D.)  
Tu., Sat., at 11.....Professor Foster.  
*Text-books*:—Houston's Introduction to Mathematical Physics (Longmans), and Page's Introduction to Theoretical Physics (Von Nostrand).
- 8A. Molecular Physics.** (Graduate E.)  
Wed., Fri., at 10.....Professor Shaw.  
*Text-book*:—Crowther's Ions, Electrons and Ionizing Radiation (E. Arnold).
- 8B. Theory of Heat.** (Graduate F.) (Replaced by 6B in alternate sessions.\*)  
Mon., at 9 (laboratory,‡ Monday, 2-5).  
Professor Shaw and Dr. Douglas.  
*Text-book*:—Robert's Heat and Thermodynamics (Blackie).
- 9. Radioactivity.** (Graduate G.)  
Two hours, second term (three hours laboratory).....Dean Eve.  
*Text-book*:—Rutherford's Radioactive Transformation (C.U.P.).
- 10. Vector Analysis.** (Graduate H.)  
Two hours; first term.....Dean Eve.  
*Text-book*:—Coffin's Vector Analysis (Wiley).

#### HONOUR COURSES IN MATHEMATICS AND PHYSICS

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2. First Year students intending to take these Honour courses are advised to take Physics 2 and the advanced section of Mathematics 1.

Second Year:—Mathematics 3, 4, 5; Physics, 3, 4; (Chemistry and English recommended as other subjects to be chosen).

\* Courses 6B and 8B will be given in alternate sessions as follows:—6B in '32-'33, '34-'35, etc., and 8B in '31-'32, '33-'34, etc.

‡ The Department of Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.



Third Year:—Mathematics 6, 7; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8, 9, 10.

Third and Fourth Year Honour students are invited to attend the Journal Club, Colloquium and Physical Society.

A reading knowledge of scientific French and German should, if possible, be obtained before the end of the fourth year.

See page 529 for courses in Engineering Physics.

#### GRADUATE COURSES IN PHYSICS

See page 529.

#### DEPARTMENT OF PSYCHOLOGY

PROFESSOR AND DIRECTOR OF THE PSYCHOLOGICAL LABORATORY:—  
WILLIAM D. TAIT.

ASSOCIATE PROFESSOR:—CHESTER E. KELLOGG.

DEMONSTRATOR:—N. W. MORTON.

READER:— ————.

#### FOR UNDERGRADUATES

**1. Introduction to Psychology.** Second Year.

Lectures and experiments.

Mon., Wed., at 10, and one laboratory period to be arranged. This course is a prerequisite for all other courses.

Professor Tait and Mr. Morton.

**2. General Psychology.** Third and Fourth Years.

General principles, selected topics from comparative, genetic, experimental, differential, and social psychology, with applications, and an introduction to the philosophy of mind.

Lectures, experiments, and supervised study following syllabus issued by instructor. All required work done in class.

Lectures Mon., Wed., Fri., at 11, followed by study periods.

Professor Kellogg.

**3. Experimental Psychology.** Third and Fourth Years, Second Term.

Laboratory training supplementary to that in Course 1. Qualified students are permitted to undertake original investigation of assigned problems, in place of some of the standard experiments.



Students electing this course must take Mathematics 1B in the first term. Graduate students taking the course for credit must also pass an examination on Boring's History of Experimental Psychology.

Laboratory periods Mon., Wed., 2 to 4; conferences or lectures Fri., at 2.....Professor Kellogg and Mr. Morton.

FOR UNDERGRADUATES AND GRADUATES

4. **Physiological and Experimental Psychology.** Third and Fourth Years.

First term, structure and functions of the nervous system; second term, advanced experimental psychology, theory and technique. Lectures, readings and reports.

Open only to students who have passed or take concurrently Course 2 or Course 3 or are working in Biology as a continuation subject.

First term; Mon., Wed., Fri., at 10; second term, to be arranged. (Given in 1932-33.)

Professors Tait and Kellogg.

5. **Comparative Psychology.** Third and Fourth Years.

History, working hypotheses and methods of comparative psychology; evolution of nervous system; tropisms; theory and experimental study of instinct; special sense organs and status of research on discrimination; various methods of studying the learning process; social life; recent studies of the primates, primitive man, and race differences.

Lectures, readings and reports (half course).

Open only to students who have passed or take concurrently Course 2 or Course 3 or are working in Biology as a continuation subject.

First term; Mon., Wed. and Fri., at 10.....Professor Kellogg. (Given in 1931-32.)

6. **Child Psychology.** Third and Fourth Years.

The Mental Development of the Pre-School Child.

Lectures, readings and reports (half course).

Prerequisite:—Course 5, taken previously or concurrently.

Second term; Tu., Th., Sat., at 10.....Professor Tait. (Given in 1931-32.)



7. **Human Motivation.** Third and Fourth Years.  
An approach to a scientific theory of human conduct—individual and collective.  
Lectures, readings and reports.  
Prerequisite:—Course 2 or 4 taken previously or concurrently.  
Tu., Th., Sat., at 10. Given in 1932-33.....Professor Tait.
8. **General Introduction to Aesthetics.** Third and Fourth Years.  
Review of foundations in individual and social psychology; comparative mythology; the theory of language; study of literature, music, and the fine arts as social institutions; experimental aesthetics; the general theory of beauty.  
Lectures, readings, and a thesis.  
Prerequisite:—Course 2 or Course 7, taken previously or concurrently, or continuation work in literature, music, or philosophy.  
Tu., Th., Sat., at 9.....Professor Kellogg.  
(Given in 1931-32.)
9. **Educational Psychology.** Third and Fourth Years.  
Mental inheritance; types and theory of the learning process; motivation and economy of learning; transfer of training; mental hygiene; educational and vocational guidance; selection and co-ordination of subject-matter; improvement of teaching methods; measuring results of teaching; what scientific method has done for education.  
Lectures, readings, and a thesis.  
Prerequisite:—Course 2 or Course 3, taken previously or concurrently.  
Tu., Th., Sat., at 11. Given in 1932-33.....Professor Kellogg.
10. **Mental Measurements.** Third and Fourth Years.  
Lectures, practical testing, reports (half course).  
Prerequisite:—Course 3, taken previously or concurrently.  
First term; Tu., Th., Sat., at 10.....Professor Tait.  
(Given in 1931-32.)
11. **Educational Measurements.** Third and Fourth Years.  
Training in administration and interpretation of results of standard tests in both elementary and secondary school subjects.  
Lectures, readings, practice testing, and reports.  
Prerequisite:—Course 10.  
Second term; Mon., Wed. and Fri., at 10.....Professor Kellogg.  
(Given in 1931-32.)



**12. Vocational and Industrial Psychology. Third and Fourth Years.**

Lectures, readings and reports.

Prerequisite:—Course 3, taken previously or concurrently.

First term; Tu., Th., Sat., at 11.....Professor Tait.  
(Given in 1931-32.)

**13. History of Modern Psychology. Third and Fourth Years.**

Lectures, readings and reports (half course).

First term; hours to be arranged.

**HONOUR COURSES**

Second Year:—Psychology 1 and Philosophy 1. Students are advised to include Biology and Elementary German in either their first or second year.

Third Year:—At least two courses in Psychology, including either 2 or 3. The remaining courses may be selected, subject to approval of the Chairman, from the following:—Practical Mathematics, Elementary Analysis, Calculus, History of Philosophy, Logic and Metaphysics, Genetics, Physiology, Neurology, Comparative Anatomy, Scientific German or French, Education, Sociology or Economics. The courses selected must be relevant to the candidate's field of specialization in Psychology.

Fourth Year:—Four full courses, as in third year, except that course 2 may not be counted as an Honour Course in 4th year. At the end of the Fourth Year Honour students are required to take a comprehensive examination covering the whole field. This examination may be either oral or written.

The requirements for Honours in Psychology and other subjects are two courses in Psychology and two in the other subject selected, each year.

**GRADUATE COURSES**

See page 536.

**SCHOOL SERVICE BUREAU**

The Department of Psychology maintains a School Service Bureau. Its purpose is to furnish aid and advice with regard to intelligence tests, classification of pupils, vocational guidance, remedial treatment, standardized tests and measurements and other psychological aspects of education.



As far as time and equipment permit, this service is at the disposal of superintendents, principals, teachers, parents and others interested in education.

#### DEPARTMENT OF PHYSIOLOGY

PROFESSOR OF PHYSIOLOGY:—JOHN TAIT.

RESEARCH PROFESSOR:—BORIS P. BABKIN.

ASSISTANT PROFESSOR:—N. GIBLIN.

LECTURER:—S. DWORKIN.

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{D. A. ROSS.} \\ \text{G. F. SUTHERLAND.} \end{array} \right.$

#### 1. Introductory Course.

This course, which serves as an introduction to the subject for medical students, is likewise designed to meet the needs of students of Psychology or of any other student who wishes to make acquaintance with Physiology. Students of Biology will find it valuable as giving an insight into the experimental side of their subject.

Along with the lectures a short laboratory course will be given, this latter being only for students who are not simultaneously taking or have not already taken a course in Anatomy or Zoology. The total time, with laboratory, is about 3 hours a week.

#### 2. Intermediate Course.

Three lectures, one demonstration and six hours laboratory work a week. October to December.

#### 3. Senior Course.

Two lectures, one demonstration and six hours laboratory work a week. December to February.

For Advanced Lectures and other Advanced work in Physiology see the Announcement of the Faculty of Graduate Studies and Research.

#### GRADUATE COURSES

See page 535.



## DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR:—R. DU ROURE.

ASSOCIATE PROFESSORS:— $\left\{ \begin{array}{l} \text{P. VILLARD.} \\ \text{GEORGE EDOUARD LEMAÎTRE.} \end{array} \right.$ ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{MME. TOUREN FURNESS.} \\ \text{L. D'HAUTESERVE.} \end{array} \right.$ 

LECTURER:—MELLE C. HENRY.

## FRENCH

Owing to the position which the University occupies in the midst of a very large French-speaking population, the Department enjoys the opportunities afforded by French church services, French newspapers, French theatres, French literary clubs and public lecture courses in the French language. It maintains in consequence a particularly high standard in the study of French. Every lecture, even in the First Year, is given in French, and the complete course of studies is so combined as to give the students not only a theoretical knowledge of French grammar and literature, but a practical ability to talk, read and write French correctly and fluently.

Both oral and written examinations are held on each year's work.

The oral examination (in both General and Honour courses) counts for 50 per cent.

As there is no oral matriculation examination in this subject, a considerable number of students undertake the work without any knowledge of spoken French. A special section in the First Year is therefore provided for such students, but it is not possible to acquire fluency in the language without extra work. Students who are deficient in this respect, and especially those taking French as a continuation subject, are therefore urgently advised to follow the French Summer School course either before or after their First Year.

## 1. French Language and Literature. First Year.

Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11....Professors du Roure, Villard, Furness, d'Hauteserve and Melle Henry.

*Texts:*—(a) General Course.—Green and Fort, French Composition (Oxford); Lavis, Histoire de France, Cours moyen; Eugène Labiche, La poudre aux yeux; Maupassant, Contes Choisis; A. Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford). (b) Advanced Course.—D. L. Buffum, French Short Stories (Holt); Racine, Andromaque (Ginn); Jules Romain, Knock ou le Triomphe de la médecine (The Century Co.); Molière, Les Précieuses Ridicules (Heath); Moraud, French Composition (Oxford).



**2. French Language and Literature. Second Year.**

Section A, Tu., Th., Sat., at 9; Section B, Tu., Th., Sat., at 11....

Professors Furness and d'Hauteserve and Melle Henry.

*Texts:*—Des Granges, Morceaux choisis, Classes de Lettres (Hatier); Molière, Le Bourgeois Gentilhomme (Holt); Augier, Le Gendre de M. Poirier (Heath); Des Granges, Précis de Littérature Française (Hatier); Mérimée, Colomba (Heath); Spiers, Graduated Course of Translation (Simpkin, Marshall and Co.).

**3. French Literature. Second Year. (Honour Course.)**

Tu., Th., Sat., at 11.....Professors du Roure and Furness.

*Texts:*—Corneille, Le Cid (Holt); La Bruyère, Caractères; Molière, Les Femmes savantes (Macmillan); Musset, Trois Comédies; (Heath); Hugo, Ruy Blas (Holt); P. Hervieu, La Course du Flambeau (Heath); Pailleron, Le Monde où l'on s'ennuie (Heath); Bowler, Stories by Contemporary French Novelists (Ginn); Louis Hémon, Maria Chapdelaine.

**4. French Literature of the XVIIth and XVIIIth Centuries. Third Year.**

Mon., Wed., Fri., at 10.....

Professor Lemaitre and Melle Henry.

*Texts:*—Des Granges, Morceau choisis, Classes de Lettres (Hatier); Corneille, Horace; Racine, Phèdre; La Fontaine, Fables (Hatier); Des Granges, Précis de Littérature Française (Heath); Marivaux, Le Jeu de l'Amour et du Hasard (Macmillan); Beaumarchais, Le Barbier de Séville (Ginn).

Home Readings: Molière, L'Avare (Hatier); Lesage, Gil Blas (Heath); Voltaire, Zadig (Hatier).

Prose Composition:—Nicholson and Brennan, Passages for Translation into French (Oxford).

**5A. Modern France—Political and Social Institutions. Third and Fourth Years.**

First term; Mon., Wed., Fri., at 12.....Professor du Roure.

*Texts:*—Lanson et Desseignet, La France et sa civilisation (Holt).

**5B. Modern France: Development of Political, Social, Religious and Philosophical Thought. Third and Fourth Years.**

Second term; Mon., Wed., Fri., at 12.....Professor du Roure.

*Texts:*—Lanson et Desseignet, La France et sa civilisation (Holt).



**6. French Literature of the XIXth and XXth Centuries. Fourth Year.**

Mon., Wed., Fri., at 10.....Professors du Roure and Furness.

*Texts:*—Hugo, *Hernani*; Balzac, *Le Père Goriot*; French Lyrics of the Nineteenth Century (Ginn); Des Granges, *Précis de Littérature Française* (Hatier); Des Granges, *Morceaux choisis, Classe de Lettres* (Hatier); Paul Bourget, *Un disciple*; E. Rostand, *Cyrano de Bergerac*.

Home Readings: Chateaubriand, *René*; Flaubert, *Trois Contes*; Guy de Maupassant, *Contes choisis*; A. Daudet, *Le Petit Chose*; Anatole France, *Le Livre de mon ami*.

Prose Composition:—Nicholson and Brennan, *Passages for Translation into French* (Oxford).

**7. History of the French Language. Third and Fourth Years. (Honour Course.)**

Tu., at 10.

(Given in 1931-32.)

*Texts:*—Darmstetter, *Cours de Grammaire Historique*, Parts I and II.

**8. History of the French Novel.**

Third and Fourth Years (Honour Course).

Tu., Th., Sat., at 12.....Professor du Roure.  
(Given in 1932-33.)

**9. History of the French Theatre of the XIXth Century.**

Third and Fourth Years (Honour Course).

Th., Sat., at 10.

(Given in 1931-32.)

**10. Evolution of the French Lyric.**

Third and Fourth Years (Honour Course).

Tu., Th., at 12.....Professor du Roure.  
(Given in 1931-32.)

*Texts:*—French Lyrics of the Nineteenth Century (Heath).

**11. Survey of Contemporary French Literature. Third and Fourth Years (Honour Course).**

Tu., Th., at 10.....Professor Lemaitre.  
(Given in 1932-33.)



**12. French Commercial Course. Second Year.**

Mon., Wed., Fri., at 12.....Professor Villard.

*Texts:*—Chinard, *Histoire de la Littérature française*; Richards, *Manuel de lecture expliquée, XIXème siècle* (Cambridge); Sand, *La mare au diable* (Ginn); Daudet, *Lettres de mon moulin*; Pailleron, *Le Monde où l'on s'ennuie*; Carroué, *Manuel de correspondance, commerciale*; Malakis, *Le Français du Commerce* (Holt).

Home Readings:—Augier, *Le Gendre de M. Poirier*; Louis Hémon, *Maria Chapdelaine*.

**13. French Commercial Course. Third Year.**

Mon., Wed., Fri., at 10.....Professor Villard.

*Texts:*—(a) Des Granges, *Précis de littérature française*; Montesquieu, *Lettres Persanes* (Macmillan); T. B. Rudmose-Brown, *French Short Stories* (Oxford); Chateaubriand, *Atala* (Heath); (b)—Janau, *Commercial Correspondence* (Longmans); Jago, *La France qui travaille* (Heath); Daniel Massé, *Initiation économique* (Hachette).

Home Readings:—Renault, *Lectures Commerciales* (Oxford); Mérimée, *Colomba*.

**14. French Commercial Course. Fourth Year.**

Mon., Wed., Fri., at 9.....Professor Villard.

*Texts:*—(a) Clerget, *Manuel d'économie commerciale*; Gide, *Principles d'économie politique*; (b) Lanson et Desseignet, *La France et sa civilisation* (Holt); Pargment, *Trente-trois Contes et Nouvelles* (Holt).

Home Readings:—Roe, *La France laborieuse* (Nelson); Calvert, *The French newspaper* (Oxford).

**15. French Science Readings. First Year, B.Sc. Course.**

Tu., Th., Sat., at 9.....Professor d'Hauteserve.

*Texts:*—Greenfield and Babson, *Industrial and Scientific French* (Ginn); J. Verne, *Vingt mille lieues sous les mers* (Heath); J. Verne, *Cinq semaines en ballon*; J-H. Rosny Aîné, *La guerre du feu* (Nelson).

**HONOUR COURSES IN FRENCH**

Prerequisite:—1.

Second Year:—2 and 3.

Third Year:—4, or 5A and 5B; 7, 9 and 10, or 8 and 11 and a full course in another subject approved by the Head of the Department.

Fourth Year:—6, or 5A and 5B; 8 and 11, or 7, 9 and 10 and a full course in another subject approved by the Head of the Department.



FRENCH REQUIREMENTS FOR THE HONOUR COURSE IN FRENCH AND  
OTHER SUBJECTS

Second Year:—2 and 3.

Third Year:—4, or 5A and 5B; and either 8, 11, 7 and 9, or 10.

Fourth Year:—6, or 5A and 5B; and either 7 and 9, 10, 8, or 11.

M.A. COURSES

See page 539.

DEPARTMENT OF SOCIOLOGY

PROFESSOR AND DIRECTOR OF THE SCHOOL FOR SOCIAL WORKERS:—

CARL ADDINGTON DAWSON.

ASSISTANT PROFESSOR:—EVERETT CHERRINGTON HUGHES.

ASSISTANTS:—

{	HELEN MACGILL HUGHES.
	_____

1. Introduction to the Study of Society. Second Year.

An environmental approach to the study of human nature and behaviour; an objective and scientific analysis of human relations; ecological and social forces; the great society and the growth of communication; conflict as a social function; the social order and social change; definition and use of the main sociological concepts.

(a) Tu., Th., Sat., at 10.....Professors Dawson and Hughes.

(b) Tu., Th., Sat., at 11.....Professors Dawson and Hughes.

2. The Community. Third and Fourth Years.

The community as the unit of approach in the study of the social, industrial and political phases of urban and rural life; how basic institutions and human behaviour are affected by the fundamental changes taking place in modern communities; mobility of population in relation to the problems of social and industrial organization.

Tu., Th., Sat., at 9.....Professor Dawson.

3. Immigration. Third and Fourth Years.

Canadian population, racial origins, racial differences and race relations; social effects of migration and immigration; selection and assimilation of immigrants; the optimum population for Canada.

Second term; Tu., Th., Sat., at 9.....Professor Dawson.

(Given in 1932-33.)



#### 4. Social Pathology. Third and Fourth Years.

Social disorganization; poverty and dependency, as related to unemployment, casual work and individual disabilities; economic and social demoralization; adult crime.

Second term; Mon., Wed., Fri., at 10.....Professor Hughes.

*Texts*:—Parmelee, Poverty and Social Progress (Macmillan).

#### 5. Social Origins. Third and Fourth Years.

The culture and social organization of primitive or pre-literate peoples, including anthropological data on:—Marriage and kinship; property and the division of labour; magic, religion and science; taboos, customs and morals; myth, folklore and legend; art, ornament and decoration; war, slavery, punishment and the state; the mind of primitive man. The processes of invention and diffusion in the origin and development of culture.

(Given in 1932-33).....Professor Hughes.

#### 6. Social Movements. Third and Fourth Years.

The natural history of typical social movements, such as revivals, migrations, revolutions, reform and political movements; classification of such movements; the "life-cycle" of a social movement; social movements in relation to social change.

(Given in 1932-33).....Professor Hughes.

#### 7. The Family. Third and Fourth Years.

The study of the family as the fundamental institution, its early forms, attitudes, and natural history, sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational and legal aspects of family life; present-day disorganization and reorganization of family life.

First term; Mon., Wed., Fri., at 10.....Professor Dawson.

#### 8. Social Research. Graduate Seminar. Research problems, theory and methods.

Hours to be arranged.....Professors Dawson and Hughes.

#### 9. The Sociology of the Child. Third and Fourth Years.

The child as a developing personality; the normal cycle of social growth in the family; modern supplementary institutions for the normal child, such as the school, the playground and the social agency; the dependent child and the delinquent child, and the institutions which treat them.

First term; Mon., Wed., Fri., at 12.....Professor Hughes.



**10. Culture Areas in Canada. Third and Fourth Years.**

The application of anthropological and sociological methods to the study of culture areas in Canada. These areas are separated from each other by the main physiographic regional divisions. Each region breaks up into the older areas of settlement and pioneer belts. The basic structure and related social and cultural organization of each area will be studied. The course will also cover: A comparison of the main culture traits and their diffusion in each area; research projects to discover the indices of culture organization and social change in the various areas; the conflict of British, American and Canadian culture patterns in Canada.

Mon., Wed., and Fri., at 12.....Professor Dawson.

**HONOUR COURSES**

Second Year:—Course 1 and two courses selected from any two of the allied departments of economics, psychology, philosophy and history.

Third Year:—Three full courses from 2 to 10.

Fourth Year:—Any three full courses from 2 to 10 other than those selected in the Third Year.

At the discretion of the Department certain courses in other departments may be substituted for certain courses in Sociology. A liberal use is made of the courses of allied departments.

Students taking honours in Sociology and one other subject are required to take two courses in each department.

**GRADUATE COURSES**

For graduate courses see page 540.



## DEPARTMENT OF ZOOLOGY

PROFESSOR:—ARTHUR WILLEY.

ASSOCIATE PROFESSOR:—N. J. BERRILL.

ASSISTANT PROFESSOR:—V. C. WYNNE-EDWARDS.

LECTURER:—JEAN T. HENDERSON.

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{M. NOTKIN.} \\ \text{K. TERROUX.} \end{array} \right.$ 

1. **Elementary Zoology.**  
First term; Mon., Wed., at 2.  
Two hours laboratory; Fri., 2-4.....Professor Berrill.
- 1M. **General Zoology.**  
First term; Tu., Th., at 2.  
Four hours laboratory; Mon., Wed., at 9.....Professor Willey.
2. **Zoology of Invertebrata.**  
Mon., Wed., at 11.  
Four hours laboratory; Mon., Wed., 2 to 4..Mr. Wynne-Edwards.
3. **Colloquium.**  
Tu., at 5.....The Staff.
4. **Comparative Anatomy of Vertebrata.**  
Mon., Fri., at 10.  
Two hours laboratory; Th., 9-11.....Professor Willey.
5. **Comparative Embryology.**  
Second term; Tu., Fri., at 11.  
Two hours laboratory; Tu., 2-4.....Professor Berrill.
6. **Experimental Zoology.**  
By arrangement; second term.
7. **Animal Ecology.**  
Tu., at 10.....Professor Willey.  
1½ hours.

## HONOUR COURSES IN BIOLOGY

Prerequisites:—Botany 1; Chemistry 1 and 1C; Zoology 1.

Second Year:—Botany 2 and 3 (with-laboratory work); Zoology 2,  
with at least Physics 1 or Chemistry 2 or their equivalent.

Third Year:—Botany 4 and 6; Zoology 3 and 4.

Fourth Year:—Botany 7 and 8; Zoology 5 and 6.



## DEPARTMENT OF PHYSICAL EDUCATION

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.

UNIVERSITY MEDICAL OFFICER FOR WOMEN:—MARY CHILDS.

ATHLETIC MANAGER:—D. S. FORBES.

TRACK COACH AND ASSISTANT PHYSICAL DIRECTOR:—  
F. M. VAN WAGNER.

ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

PHYSICAL DIRECTOR FOR WOMEN:—JESSE S. HERRIOTT.

ASSISTANT PHYSICAL DIRECTORS FOR WOMEN:—

	{	ETHEL WAIN.
		RUTH HARVEY.
		ZERADA SLACK.

## FOR MEN

In order to promote as far as possible the physical welfare of the student body, all First and Second Year students and all students coming to the University for the first time, are required to pass a physical examination. Students of all years who wish to engage in athletic activities are also required to be physically examined. The hours for this examination are announced at registration.

At the same time each student is asked to fill in a card indicating his choice of physical activity, which he is allowed to follow, unless debarred for medical reasons, under which circumstances he is given a further choice among other recognized but less strenuous forms of exercise or does gymnasium work, as the case may require.

Physical education is required of all students of the first two years. Two periods per week are devoted to it.\*

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

Unexcused absences up to one-eighth of the required number of periods are allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth disqualify a student. Such students are required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

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\*Owing to lack of accommodation, this requirement is suspended for the session 1931-32.



No student in default is allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session, the Director furnishes to the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree is issued to any such candidate unless by the express direction of Corporation.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled are allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, is considered as sufficient ground to disqualify a student from engaging in athletic contests.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, and for this time only when requisitioned for by the Department. A leaflet and handbook concerning this service and the general work of the Department, together with the regulations governing athletics, is distributed at the opening of the session.

#### FOR WOMEN (Royal Victoria College)

In order to safeguard the health of the women undergraduate students, all entrants are required to pass satisfactorily a health examination by the Medical Officer of the University. An effort is made to furnish adequate health service to all women students during their University career and a bulletin giving the details is distributed at the time of registration. The University is not responsible for accidents occurring whilst this course is being taken.

Undergraduate students in Arts and Science are required to take at least two hours work per week in this Department for the first three years of their course. Students in music must take two hours per week for two years. All women students of the first year are required to attend health lectures which will take place the last Monday of every month, unless another scheduled University class conflicts. Partial students may register for work in this Department on payment of \$5.00 for a class of two periods per week. Students repeating a year are not exempt from work in the Department for that year, but are required



to repeat their work in physical education. Students are graded for the work in this Department according to the classification governing other subjects.

Students entering with advanced standing are advised to consult the Physical Director for Women regarding their requirements in this Department.

The results of the health examination determine the programme, and every effort is made to suit the activities to the needs of the student.

Any student failing to meet the above requirements is reported to the Dean as conditioned in the subject of Physical Education. Such condition may be removed only by repeating the work of a term. Not less than one month before the conferring of degrees in each session, the Director furnishes the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students being candidates for degrees at the forthcoming convocation who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree is issued to any such candidate except by the express direction of Corporation.

Strathcona Prizes are offered in this Department, open to students of all years. Regulations governing the awarding of these prizes are announced in the Spring of each year.

Every student is required to wear the costume recommended by the Department.

Intramural and extramural activities are organized by the McGill Women Students' Athletic Association, Group II, R.V.C., under the supervision of the Department.

During the session and including the Christmas holidays, all teams and individual students desiring to participate in "outside" athletics must first apply in writing to the Physical Director for Women, by whom all such sanctions are granted. Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student is immediately debarred from participation in all University athletics for the remainder of the College Session.

To meet the requirements in the Department of Physical Education for Women, all undergraduate students should enrol for two classes per week from among the following courses:

**1. Elementary Gymnastics.** Entire session.

Wednesday, at 12. (R.V.C. Gym.)

This course comprises marching tactics, rhythmic gymnastics, elementary work on apparatus, games, tumbling and pyramids.



2. **Intermediate Gymnastics.** Entire session.  
Tuesday, at 12. (R.V.C. Gym.)  
This includes intermediate work of Course No. 1.
3. **Advanced Gymnastics.** Entire session.  
Monday, at 12. (R.V.C. Gym.)  
This includes advanced work of course No. 2.
4. **Elementary Clog and Athletic Dancing.** Entire session.  
Monday, at 3. (R.V.C. Gym.)
5. **Advanced Clog and Athletic Dancing.** Entire session.  
Monday, at 9. (R.V.C. Gym.)
6. **Elementary Interpretative Dancing.** Entire session.  
Thursday, at 9. (R.V.C. Gym.)  
This material is a rhythmic interpretation of free and natural movements.
7. **Advanced Interpretative Dancing.** Entire session.  
Wednesday, at 11. (R.V.C. Gym.)  
Pre-requisite for this dancing is Course No. 6.
8. **Elementary Character and National Dancing.** Entire session.  
Wednesday, at 2. (R.V.C. Gym.)  
This course includes modified bar work, dancing technique, character and national dances.
9. **Advanced Character and National Dancing.** Entire session.  
Friday, at 12. (R.V.C. Gym.)  
This includes advanced material of course 8.
10. **Badminton.** (R.V.C. Hall.)  
*Elementary Sections:*  
Wednesday, at 12. Thursday, at 2.  
(Beginners only are eligible to enroll.)  
*Advanced Sections:*  
Tuesday, at 11. Wednesday, at 9. Thursday, at 10. Friday, at 11.  
Only those students who have completed an elementary section are eligible to enrol, and no student may enrol in an advanced section for more than one year or for more than one class a week. Racquets must be furnished by the students.



11. **Elementary Fencing.** Entire session.  
Tuesday, at 10. (R.V.C. Gym.)  
This course includes fundamentals of fencing with practice in fencing plays.
12. **Advanced Fencing.** Entire session.  
Thursday, at 2. (R.V.C. Gym.)  
Fencing plays and participation in bouts.
13. **Elementary Swimming.** Entire session.  
Monday or Thursday, at 3-3.30, at Knights of Columbus Pool.  
The swimming Course comprises class instruction in strokes and elementary diving. (An extra fee of \$4.00 per year is charged for this course.)
14. **Advanced Swimming.** Entire session.  
Monday or Thursday, 3.30-4.
15. **Elementary Basketball, Baseball and Volleyball.** Entire session.  
Tuesday, at 2. (R.V.C. Hall.)  
This combined course consists of:—  
October to March, Basketball.  
March to May, Baseball and Volleyball.
16. **Advanced Basketball, Baseball and Volleyball.** Entire session.  
This combined course consists of:—  
October to March:—Monday, at 5; Wednesday, at 4 (R.V.C. Hall); Thursday, at 5, for team practice. (Montreal High School.)  
Same seasonal organization as for No. 15.
17. **Elementary Tennis.** Entire session.  
*Sections:* Monday, at 12. Tuesday, at 9. Tuesday, at 3. Thursday, at 11. Racquets must be furnished by the students.
18. **Hygiene Lectures for First Year Students.**  
The last Monday of every month, at 5. (Room 105, R.V.C.)  
Students are encouraged to engage in out-door activity, as much as possible. Opportunity is given in the fall for archery, field hockey and other out-door games. In the winter, skiing, skating and horseback riding may be substituted for an indoor class, if notice is given to the respective instructors and the activity is taken the same day.



## THE ROYAL VICTORIA COLLEGE

Founded and Endowed by the late Rt. Hon. Baron Strathcona  
and Mount Royal

### FOUNDATION AND HISTORY

The College was opened September 4th, 1899.

It is the outgrowth of plans conceived during the early years of his principalship by the late Sir William Dawson, which resulted in the establishment of the Ladies' Educational Association. Under the auspices of the Association, courses of lectures, delivered chiefly by Professors of McGill University, were offered to women from 1870 until 1884, thus placing within their reach, to some extent at least, the advantages of a Collegiate and University education.

In 1884, during the principalship of the late Sir William Dawson, the late Lord Strathcona, then Mr. Donald A. Smith, gave a sum of \$50,000, and, in 1887, a further sum of \$70,000, to found the Donalda Endowment for the higher education of women, such education to be conducted in the buildings of McGill College, as a distinct course in the Faculty of Arts, with the understanding that as soon as practicable the classes were to be created into a separate college of McGill University, with a building separate from that of McGill College. Under the terms of the Donalda Endowment it was provided that degrees in the Faculty of Arts should be granted to women practically on the same conditions as to men, and that the examinations for such degrees, and the regulations for ranking, for honours, prizes and medals should be identical with those for men.

As a result of this generous gift, and in accordance with the conditions attached, courses of instruction, identical in subject and in standard with those of the Faculty of Arts, were established for women in 1884. These courses were given in the Arts Building, some of the work of the Third and Fourth Years and of the Honour Courses being conducted in joint classes.

The first graduating class of eight women was presented for the degree of Bachelor of Arts in 1888.

The ultimate object of Lord Strathcona had been the provision of a residential college, and this was realized when the Royal Victoria College was opened in 1899, and formally inaugurated by their Majesties the King and Queen (then Duke and Duchess of York) in 1901.

A Warden and Resident Staff were appointed. With these new and great advantages the instruction provided by the original endowment has been maintained as hitherto, except that the separate classes are held mainly in the College Building. Women have continued to prepare



for degrees in Arts and Science. Through the wisdom of Lord Strathcona, provision was also made for the study of music. Since the establishment of music as a separate department of the University in the Conservatorium of Music, independent instruction in music in the College has ceased, but women students resident in the Royal Victoria College may take degree courses in music at the Conservatorium.

Resident students of music have the use of pianos in two practising rooms and at certain hours in other parts of the building.

Facilities for lawn tennis and for skating are provided. Subject to regulations, the students have the privilege of using the University grounds.

#### THE COLLEGE BUILDING

The College building, surrounded by garden and tennis courts, was erected at a cost of about \$400,000 at the head of Union Avenue, upon land adjacent to the University Campus.

The building provides an academic, administrative and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fire-proof, and much thought and artistic care have been given to furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the faculty room, the students' common room, a spacious dining hall, and two lecture rooms. On the first floor are other lecture rooms, the library, reading room, and a handsome assembly hall, which is used for Conservatorium concerts and other University purposes. This hall is sometimes lent for purposes that are in harmony with the objects of the College. The gallery, which is reserved exclusively for the use of College students on such occasions, affords the latter many opportunities of educational value. The second and third floors and a small part of the first floor are occupied by the rooms of the Resident Staff and students. Each student has a separate study-bedroom. The rooms are completely furnished, and no article of furniture need be brought by the students. An Annex in charge of a College Tutor and adjacent to the College was opened in 1925-26. It provided study-bedrooms for students who in all other respects shared the life of the students in the College building.

At the opening of the session of 1929-30, it was found necessary to open a second temporary annex. This fact, indicating that the capacity of the residence hall was quite overtaxed, led to the proposal to build a second dormitory. Plans were drawn up and operations began in the spring of 1930 on the lot adjoining the College on its Western



side. This new wing which will be completed before the opening of the session of 1931-32, will more than double the housing capacity of the College. A further programme of building is indicated. The gymnasium of the College has long been outgrown and gymnastic classes and exercises have been held in the assembly hall, also the dormitory buildings, old and new, fail to meet many needs of the ever-growing body of non-resident students. The erection of a Women's Union with gymnasium and swimming pool attached is a scheme which presses for realization.

#### ADMISSION AND INSTRUCTION

As the College is a college of McGill University, and its students are registered in the Faculty of Arts and Science, they are required to comply with the regulations concerning discipline and instruction made by the University and Faculty, and, in addition, with such regulations as may be made by the Royal Victoria College.

Undergraduates are required to pass the Matriculation Examination of the University, or an equivalent examination (see page 83) and can proceed to the degrees of B.A. and B.Sc., under the regulations of the Faculty of Arts and Science as stated on pages 159 to 164. They are required to wear academic dress. Partial students, in order to obtain admission, must pass the Matriculation Examination in the subject or subjects which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the course.

*Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal. Students not residing with their parents or guardians in Montreal are expected to apply for residence at the College. Those who do not so apply are required to submit their plans for residence to the Warden and to obtain written approval. No sanction can be given to establishments of students in apartments or elsewhere unless such households are presided over by a parent or other responsible person approved by the University. All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination. No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, shall enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the resident students is in charge of two physicians (Dr. W. F. Hamilton and Dr. C. F. Martin), who may be consulted, free of charge, by arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.*



Instruction is given by professors and lecturers of the University and lecturers and tutors of the Royal Victoria College, who are also members of the various teaching departments of the Faculty of Arts and Science. Graduate students can proceed to the degrees of M.A., M.Com., M.Sc. and Ph.D.

Lectures are given in the College or in the University buildings, practical instruction in science being given in the University laboratories. Students are assisted in their studies by the resident staff.

Students of the College have the use of the University Library. There is also a College Library, in charge of a trained Librarian, comprising works of general literature and the chief stated books required for the University curricula, the Department of Romance Languages being especially well represented. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Peter Redpath Museum, containing large collections in mineralogy, palæontology, zoology, botany, archæology, and ethnology, is open to students of the College.

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Applications for admission should be addressed to the Warden, Royal Victoria College, Montreal.

#### EXHIBITIONS AND SCHOLARSHIPS

For a statement of the exhibitions and scholarships open to women students of the University, see pages 102 to 135.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the City, the Warden and Staff are empowered to make nominations in any of the four college years to not more than three additional exhibitions of the value of \$100 each.

#### TUITION FEES

Students (graduate, undergraduate or partial, resident and non-resident) pay the same fees as are charged in the Faculty of Arts and Science. For undergraduate students the fee is \$150 (this includes fees for library, gymnasium and graduation). For further information, see pages 43 to 45. Every undergraduate pays an Athletic or Grounds fee of \$6.00, the McGill Women Students' Society fee of \$2.50, and \$1.50 for the McGill Daily. All fees are payable to the Bursar, McGill University, on October 1st and 2nd.



## BOARD AND RESIDENCE

Residence in the College is open to graduate students, undergraduates, and, in exceptional circumstances, to partial students. *Application for residence should be made early, as accommodation in the college is limited.* No room is assigned for a shorter period than the University session. Students of the First Year who, under regulation of the Faculty of Arts and Science, are dropped from the University (see page 48) will be required to withdraw from residence. The charge for board and residence, in addition to the sessional fee for tuition, is \$500 (\$200 for room, \$300 for board). This may be paid in two equal instalments of \$250 each, in October and February. Room rent includes all expenses of heat and light (not other electrical attachments, for which fees will be charged). These charges cover the University session from the first day of registration (September 28th) to the close of the examination (for members of the graduating class, to the day after Convocation, May 27th). A deposit fee of \$10.00 is required when a room is reserved, and is deducted from the charges for the first term.

Students entering earlier or remaining later for purposes of instruction, practice teaching, or examination, and students arriving in September for practice teaching, supplemental or matriculation examinations, are charged an additional fee of \$1.50 a day. No additional fee is charged to students returning earlier than September 26th, for scholarship examinations. With the permission of the Warden, students may remain in residence during the Christmas vacation. They will be required to pay a fee of \$1.50 a day for board and residence.

The charges for tuition and room rent are not subject to remission or reduction under any circumstances. Rooms cannot be reserved for a shorter period than the University session. In case of prolonged illness and absence from College for a period of six weeks or more a proportionate reduction is made in the charge for board. Information concerning Bursary and Loan Funds can be obtained from the Warden.

*Notice of withdrawal should be given at the close of the session, or not later than September 1st. Rooms are not reserved for students whose standing at the end of the Session does not entitle them to proceed to the next year. (See page 157.)*

## PHYSICAL EDUCATION

See pages 229 to 231.

## MUSIC

Students taking courses in music leading to the degree or diploma are eligible for residence in the College.



Instruction in music is offered at the McGill Conservatorium of Music. Students may prepare for the degree examination in music of the University, or for the Diploma of Licentiate in Music.

For information regarding courses in Music, see the Announcement of the Conservatorium of Music.

#### COLLEGE SOCIETIES

The students maintain the following societies:—The Royal Victoria College Undergraduates' Society, and also the Athletic Association, Group II, R.V.C.; the Delta Sigma Literary and Debating Society; La Société Française; the Women Students' Christian Association (R.V.C.); the Music Club of the R.V.C.; all organized under the McGill Women's Students' Society.



## EXAMINATION TIME TABLE

## SESSIONAL EXAMINATIONS, MAY 1932—SUBJECT TO REVISION

<i>Date</i>	<i>Morning</i>	<i>Afternoon</i>
Thursday, Apr. 30th	Botany, 3 Chemistry, 3b1 Latin, 11, 13 French, 1 and Adv. French, 14 (Com. IV) Geology, 1 German, 8 History, 3. Mathematics, 8 Physics, 6A Accountancy (Com. II)	Chemistry, 7 Latin, 11, 13 Geology, 1 (Museum) German, 8 History, 2 Hebrew, 2, 5 Physics, 6B Sociology, 6 Spanish (Com. III)
Friday, May 1st...	Chemistry, 8 Greek, 11 Economics, 21 (Com. II) French, 24, 15 German, 1 and Adv. History, 9 Mathematics, 6 Physics, 4	Botany, 2 Greek, 11 English, 16 Geology, 5 German, 1 and Adv. German, 4 History, 4 Sociology, 3 Spanish (Com. IV)
Saturday, May 2nd	Latin, 2 (Pliny and Sight) Economics, 11 English, 1 Geology, 8 Philosophy, 5 Marine Insurance	Philosophy, 5 (Arts Bldg.)
Monday, May 4th..	Chemistry, 5 Latin, 1, 1A English, 6 French, 4, 6 German, 5B Mathematics, 2, 4, 9 Physics, 5A Psychology, 1 Zoology, 4	Latin, 1 Economics, 7, 29 French, 13 (Com. III) German, 5B Mathematics, 9 Hebrew, 3 Physics, 8A Sociology, 4



<i>Date</i>	<i>Morning</i>	<i>Afternoon</i>
Tuesday, May 5th..	Greek, 1, 1A, 13 Economics, 27 French, 11 German, 3 History, 7 Mathematics, 42 (Com. II) Philosophy, 1 Psychology, 7 Sociology, 1A	Greek, 1A, 13 German, 2, 3 History, 3, 6 Zoology, 7 Accountancy (Com. III) Spanish (Com. I)
Wednesday, May 6th	Chemistry, 6 English, 9 Geology, 10 German, 5A Mathematics, 1 (Alg.) and Adv., 11 Philosophy, 6 Physics, 3B, 5B Accountancy (Com. IV)	Chemistry, 14 Greek, 2 Economics, 1 and 2, 22 German, 5A Mathematics, 11 Hebrew, 4, 7 Philosophy, 6 Physics, 3A Zoology, 2 Ancient History
Thursday, May 7th.	Greek, 6. English, 10 French, 2B, 3 German, 10 History, 1, 10 Mathematics, 43 Philosophy, 2 Physics, 2, 7B	Greek, 4, 6 Economics, 14 Philosophy, 2 Physics, 7A Psychology, 9 Sociology, 1B Zoology, 5 Spanish (Com. II)
Friday, May 8th...	Chemistry, 1, 9 (Dr. Hatcher) Latin, 4 Economics, 24 German, 7 History, 8 History (General Paper) Philosophy, 3 Accountancy (Com. I)	Chemistry, 4, 15 Economics, 3 English, 7 French, 5B, 12 (Com. II) German, 7 Hebrew, 1 Philosophy, 3 Psychology, 2



<i>Date</i>	<i>Morning</i>	<i>Afternoon</i>
Saturday, May 9th.	Latin, 2 (Virgil and Horace) Economics, 13 English, 2, 5 French, 8 Mathematics, 7, 10 Philosophy, 4	Chemistry, 2 Geology, 2 Mathematics, 3, 7 Hebrew, 10 Philosophy, 4
Monday, May 11th.	Chemistry, 1 (Prof. Evans) Chemistry, 3B2, 7A Economics, 5, 20 English, 12 German, 11 Psychology, 3	Botany, 8 Chinese, 1 German, 13 Physics, 1, 2P
Tuesday, May 12th	Botany, 6 (Biol. Bldg.) Chinese, 2 Economics, 9 English, 4 Hebrew, 9	Anatomy, 11 Botany, 1 Education, 2 Mathematics, 5B
Wednes., May 13th	Chemistry, 10 (Lab.) Education, 1 History (special subjects)	Botany, 1M Botany, 5 (Biol. Bldg.) Zoology, 6
March 7, 1931.		



## SCHOOL OF COMMERCE

### COURSES FOR THE DEGREE OF BACHELOR OF COMMERCE

The courses extend over four years, and students who successfully complete them are granted the Degree of Bachelor of Commerce (B. Com.).

The curriculum, which may undergo modification before the beginning of the session, is now as follows:—

#### FIRST YEAR

##### Obligatory Subjects

English 1 and 2.

Mathematics 1.

French, or Spanish, or German.

Accountancy.

##### Optional Subjects (two to be chosen)

Latin, or Greek.

German, or Spanish, or French.

Physics, or Biology, or Chemistry.

History 1.

N.B.—Students intending to take up Mathematics 9 in the Fourth Year must obtain 65 per cent in the Mathematics of the First Year.

#### SECOND YEAR

##### Obligatory Subjects

French 12, or Spanish, or German (continued).

Accountancy.

##### Optional Subjects (three to be chosen)

Economics 21.

English.

Mathematics 42.

Mathematics 3 or 4.

Psychology.

German, or Spanish, or French 12 (continued).

Chemistry.



## FEES FOR RE-EXAMINATION

Accounting and Auditing (Intermediate)	Book-keeping.....	\$5.00
“ “ “ “	Partnership and Manufacturing Accounts..	5.00
Auditing (Intermediate)	.....	5.00
Commercial Law (Intermediate)	Law of Contracts.....	5.00
“ “ “ “	Negotiable Instruments, etc...	5.00
“ “ “ “	Agency and Partnership....	5.00
Commercial Law (Final),	Sale of Goods.....	5.00
“ “ “ “	Company Law .....	5.00
“ “ “ “	Trustee and Executors .....	5.00
“ “ “ “	Bankruptcy and Winding-Up .....	5.00
Mathematics (Intermediate)	.....	5.00
Mathematics (Actuarial Science)	.....	5.00
Economics (Final)	.....	5.00

## MEDALS

A silver medal and a bronze medal have been offered to the School of Commerce by his Honour, the Lieutenant-Governor of the Province of Quebec, the silver medal for the student with the best average, throughout his four years of study, in Mathematics, Accountancy, Business Organization and Commercial Law; the bronze medal for the one who has the best average, throughout the four years of study, in the French and Spanish languages. The Alliance Française Silver Medal is awarded to the student with the best average throughout the four years of study in the French language.

## SCHOLARSHIPS AND PRIZES

Two scholarships of \$100 each are offered by Mr. Howard Murray to the best two students in the Third Year class in French. The winners must continue the study of French during their Fourth Year, and it is during this Year that the scholarships will be paid.

The F. W. Sharp Prize in Accountancy and Mathematics will be awarded at the end of the Fourth Year to the best student in Accountancy, Business Organization and Mathematics. Value \$50.00.

The Royal Bank Fellowship in Economics, value \$1,000; open to candidates from all Canadian universities.

NOTE:—The maximum that a student will pay for repeating all Commercial Law (Final) Examinations will be \$15.00.



- N.B.—(a) Students proceeding to Mathematics 9 in the Fourth Year must pass in Mathematics 42, and in Mathematics 3 or 4, with high marks.
- (b) Mathematics 42 is a prerequisite to Third and Fourth Year Accountancy.
- (c) Economics 21 is necessary for students proceeding to the diploma of Licentiate in Accountancy of McGill University.

### THIRD YEAR

#### Obligatory Subjects

**French 13, or Spanish** (continued for students who have taken one of these subjects during their First and Second Years).

Optional Subjects (four 3-hour courses, or their equivalent, to be chosen).

#### Accountancy.

**Business Organization and Scientific Management** (half course).

**Vocational and Industrial Psychology 14** (half course).

**Commercial Law.**

**Economics 22.**

**Economics 23 and 24, or 25 and 26.**

**English.**

**Mathematics 3 or 4.**

**Mathematics 43** (half course).

**Mathematics 8.**

**Spanish, or French 13** (continued).

- N.B.—(a) Only half credit will be given to a second modern foreign language begun after the Second Year. Students should further note that time-table complications may make it impossible to begin a second language in any Year except the First.
- (b) Mathematics 3, 4, 8 and 42 must be taken by students proceeding to Mathematics 9 in the Fourth Year. High standing is required.
- (c) First and Second Year Accountancy are prerequisites to Accountancy in this Year.
- (d) Economics 21 is a prerequisite to all the other courses in this Department.
- (e) Second Year Psychology is a prerequisite to Business and Industrial Psychology.



## FOURTH YEAR

(Five 3-hour courses, or their equivalent, to be taken.)

French 14 (continued).

Spanish (continued).

Accountancy.

Mathematics 9 or any other approved Mathematical course not previously taken.

Commercial Law.

Marine Insurance and Transportation (half course).

Mathematics 43 (half course).

Economics 27.

Economics 28 and 29.

English.

N.B.—(a) Third Year Accountancy, Mathematics 42, Business Organization and Scientific Management and Commercial Law are all prerequisites to Fourth Year Accountancy.

(b) Economics 21 is prerequisite to all the courses in Economics in the Fourth Year.

(c) The Mathematical courses prescribed in the first three years are all prerequisites to Mathematics 9 in the Fourth Year.

(d) Mathematics 43 and English can be taken in either the Third or the Fourth Year.

(e) Candidates proceeding to the diploma of C.A. must take the Commercial Law course in both Third and Fourth Years.

Graduates in Commerce may obtain a B.A. degree by one additional year of residential study in Arts and Science; provided that during the five years of their course they have satisfied all the requirements for this degree.

Graduates in Commerce, who during their course have taken the requisite programme in Economics, may enter the Graduate School as candidates for the M.Com. degree in Economics and Political Science. The requisite programme in Economics consists of courses 21, 22 and 27 with 23, 24, 28 and 29.

Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures.



**DIPLOMA OF LICENTIATE IN ACCOUNTANCY**

To obtain the Diploma of Licentiate in Accountancy, which carries with it right of entrance into the Society of Chartered Accountants of the Province of Quebec, or into the Institute of Accountants and Auditors of the Province of Quebec, or into the Corporation of Public Accountants of the Province of Quebec, the student must satisfy the following conditions:—

- (a) He must pass all the examinations required for, and leading up to, the Degree of Bachelor of Commerce.
- (b) He must pursue the course of studies prescribed in this programme for Accountancy students.
- (c) He must comply with all ordinances regulating practical work to be done by students during the vacation.
- (d) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.
- (e) He must have attended as an undergraduate, Economics Course No. 21, the course in Mathematics 43 given in the Third and Fourth Years, and have obtained at least 50 per cent of the marks obtainable at the examination in this subject. Failing this, he will be required to take the course in Elementary Actuarial Science described at the end of this Announcement, in the description of "Four-year course for students of the Accountancy Association of the Province of Quebec." In Commercial Law of the Third and Fourth Years all Commerce students including those proceeding to the diploma of Licentiate in Accountancy, must obtain a 50% average in all sections of the Law examinations and not less than 40% in each section.
- (f) He must attend the post-graduate course in "Final" Accountancy and Auditing.
- (g) He must then pass successfully the final examination in Accounting and Auditing before a board of six examiners composed as follows: the Director-Secretary of the School of Commerce, two Professors of McGill University, a member of the Society of Chartered Accountants of the Province of Quebec, a member of the Institute of Accountants and Auditors of the Province of Quebec, and a member of the Corporation of Public Accountants of the Province of Quebec; or before a board of five examiners should one of the Associations mentioned fail to nominate its delegate, or of four examiners should two do so, or of three, if all.



McGill University has entered into an agreement with the Society of Chartered Accountants of the Province of Quebec, with the Institute of Accountants and Auditors of the Province of Quebec, and with the Corporation of Public Accountants of the Province of Quebec, whereby the candidates of these Associations (non-graduates) will take the final examinations conjointly with the University candidates. The papers set will be the same for both classes of candidates, but the University will retain its own Board of Examiners according to the provisions laid down in Bill No. 21. (See pages 259 to 262 for the description of "Four-Year Course" for students of the Accountancy Association of the Province of Quebec.)

The Society of Chartered Accountants of the Province of Quebec has agreed to accept apprenticeship in an Accountant's Office anywhere in Canada.

Graduates must exert themselves to find an Accountant's Office willing to accept them during their period of apprenticeship. The University has no obligation in the matter.

The examination in Final Auditing and Accounting will be held in the month of May each year.

The fee for the examination in Final Auditing and Accounting is \$25.00. Previous examination papers may be obtained at the Bursar's Office for \$0.50 per set.

N.B.—For the benefit of graduates living in the West of Canada, centres for the final examination in Accounting and Auditing may be established in Winnipeg and Vancouver. Those wishing to sit at either of these centres should give early notice (before April 1st) to the Registrar of McGill University. Such notice should be accompanied by the special fee of \$50.00.



## COURSES OF LECTURES

### ACCOUNTANCY

The accountancy work has been carefully graduated and correlated and is intended not merely to fulfil its part in a general scientific business training, but also to prepare and assist those who purpose taking up accountancy as a profession.

No previous knowledge of bookkeeping is assumed or required; the subject is developed rapidly along the lines that prevail in practice.

#### FIRST YEAR

The following plan will give a good indication of the ground covered in this year:—

The principle of debit and credit; books of original record, how they should be kept, and how utilized; documents employed in connection with them; sales, purchases, consignments, and how to handle them; returns inwards and returns outwards; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes, and the proper methods of treating these operations in the accounts; single entry, how to change to double entry, distinction between revenue and capital expenditure; trading, and profit and loss statements and balance sheet; single proprietorships.

The student is required to sift and classify his detail, write up all the books of record and account mentioned, and focus results of the various transactions or operations into the final statements.

Mon., Wed., Fri., at 12.....Professor Thompson.

#### SECOND YEAR

The subject matter for this Year will be as follows:—

Special problems that occur in connection with partnerships: The deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; departmental accounts; organization and records required; sectional balancing of ledgers and systems of internal check; analysis of expenses; distribution of expenses over departments; results in each department; comparison of these results with those shown in other periods, chain-stores; manufacturing accounts; the elements of cost accounting; building up C.I.F. and other quotations; records to take care of purchases; the voucher system; depreciation and methods of providing for it; allowances and reserves.

Mon., Wed., Fri., at 9.....Mr. Patton.



## THIRD YEAR

The work of the Third Year embraces:—

(a) Theory of the Balance Sheet: Its form and elements; capital and revenue receipts and expenditures; valuation of fixed and current assets and liabilities; wasting assets; capital and revenue profits and losses; comparative balance sheets and statements and deductions to be drawn from them; double account system; income and surplus statements.

(b) Corporation Finance: Development of the corporation; status and interior organization of the corporation; how to incorporate; different classes of incorporation; promotion and underwriting; stock and bond issues; temporary loans; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stock-holders; its abuse; consolidations; insolvency; re-organizations; different bases of capitalization; problems connected with stock and bond issues; bonus stock; treasury stock; watered stock; discount and premium on bond issues; sinking funds.

(c) Cost Accounting: General considerations; advantages of cost systems; different methods of distributing overhead expense; machine-rates, etc.; comparison of costing estimates with general books; total cost and selling-price.

(d) Auditing: Elementary considerations; audit-programme for simple trading concern.

(e) Budgeting, and bugetary control.

Tues., Thurs., Sat., at 10.....Professor Thompson.

## FOURTH YEAR

(Intended especially for students proceeding to a Diploma in Accountancy, although this course may be taken by all students who have reached the required standard.)

Cost Accounting: Control of stores, purchasing and issuing, the running inventory; quality, remuneration and control of labour; waste and leakage in factories; forms used in "job and process" costing systems connection of cost records with general accounts.

Export Houses and Branches: Accounts of head office and of branches; goods invoiced at cost, intermediate, and selling price; chain-stores; foreign exchange in accounts.

Consolidations, Amalgamations, Mergers: Consolidated statements and balance-sheets; holding corporations; control of stock and bond



issues; minority holdings; advances to subsidiaries; intra-combine profits and liabilities; capital assets and capital liabilities; initial surplus and goodwill.

Insolvency Accounts: Various schedules adopted; statements of affairs; deficiency statement; realization and liquidation account.

Auditing: Considerations applicable to all undertakings, and special considerations applicable to particular concerns; auditors' rights and duties; audit-certificates.

Trustees' Accounts: Executorships and administratorships; accrued claims; accrued expenses; corpus and income; division of an estate.

Income Tax: General considerations; taxable and untaxable income.

Instalment Sales.

Peculiarities in the form of accounts required in various undertakings.

Mon., Wed., Fri., at 11.....Professor Thompson.

*Text-books*:—120 Graduated Exercises in Book-keeping, etc., and Key, Thompson, Pitman, Toronto (First and Second Years). Accounting, Smalls and Walker, Ryerson Press, Toronto (First, Second and Third Years). Accounting, Kester, Ronald Press, New York. Vol. I (Second and Third Years). Vol 2 (Third and Fourth Years).

#### BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT

Commercial Organization: Origin, growth and classification of business organization; tests of efficiency in business organizations. Social and economic and legal aspects in the following types of organization: single proprietorship; partnership; joint stock company; public and private corporations; rights, duties, and liabilities of directors, officers, shareholders, and debenture-holders; agreements, pools, kartells, simple business tests; combination trusts; community of interest organizations; securities-holding organization; amalgamation, and mergers; launching of an industrial enterprise; planning of a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; the committee system; the location of industries; principles of management; types of management; departmental relations; standardization and equipment; standardized operations; written standard-practice instructions; adequate records; efficiency rewards.

Tues., Thurs., Sat., at 11.....Professor Thompson.

*Text-books*:—Stockeler, Business Ownership Organization, Henry Holt, New York. Jones, Administration of Industrial Enterprises, Longmans Green, New York, London.



## CHEMISTRY

The course includes a study of the more important elements and compounds, the general laws and principles and the fundamental theories of the science; with as many industrial applications as time will allow. The lectures are illustrated with specimens, experiments, diagrams, lantern-slides, etc. The general intention of the course is to give a thorough training in the basic principles of the science and their applications, so that chemical problems arising in connection with future work and study may be intelligently considered.

*Text-book:*—McPherson and Henderson, "A Course in General Chemistry."

## ECONOMICS AND POLITICAL SCIENCE

## SECOND YEAR

## 21. Elements of Political Economy.

Tues., Thurs., Sat., at 9.....Professor Culliton.

## THIRD YEAR

## 22. Economic Distribution.

Rent, wages, interest, profits, population, socialism and social reforms.

Mon., Wed., Fri., at 11.....Professor Day.

## 23. Elements of Political Science and Comparative National Government and Taxation.

General principles of government, and national government and taxation in Great Britain and the United States.

First term; Mon., Wed., Fri., at 12.....Professor Leacock.

## 24. Government and Taxation in Canada.

Federal, provincial and municipal government and systems of taxation.

Second term; Mon., Wed., Fri., at 12.....Professor Leacock.

## 25. International Trade and Trade Policy.

First term (Not given in 1931-32).....Professor Day.

## 26. Social and Industrial Legislation.

A study of legislation to include factory acts, labour legislation, pensions, insurance, etc.

Second term (Not given in 1931-32).....



## FOURTH YEAR

27. **Economic Theory of Exchange.**

Money, banking, prices, index numbers, trade tariffs.

Tu., Thurs., Sat., at 10.....Professor Day.

28. **Canada—Economic Problems.**

First term; Mon., Wed., Fri., at 10.....Mr. Forsey.

29. **Canada—Economic Problems.**

Second term; Mon., Wed., Fri., at 10.....Mr. Forsey.

## ENGLISH

The fundamental purpose of the course in English is to train students to deal with such problems of expression as arise in commercial life. Considerable attention is given to business correspondence and other forms of commercial writing. The interests of students, however, are best served, even for these special purposes, by a more general training in English. These courses, therefore, include practice in various kinds of writing, as well as a study of English literature, in which a large amount of reading is required. As far as possible, the writing prescribed for students is related to the work they are doing in other classes.

The following is a brief outline of the work:—

## FIRST YEAR

English 1, English Composition one hour a week. Weekly individual conferences with the instructor are required.

English 2, English Literature, as prescribed for students in the Faculty of Arts and Science—a general outline course from Chaucer to Kipling. Readings and fortnightly individual conferences. Two hours a week. Professor Macmillan and an assistant.

## SECOND YEAR

English Literature: Choice of Second Year Arts and Science courses.

## THIRD OR FOURTH YEAR

A choice of any General Arts and Science courses in English in these Years.



## FRENCH

The study of French will be first approached from the literary side, both in order to increase its value to the student as an element of culture and in order to afford a sufficient background for the commercial studies which are to come later. These commercial studies will begin in the Second Year, and will comprise about half of the work done in that Year. In the Third Year work will be almost entirely of a commercial character.

The following is a synopsis of the work:—

## FIRST YEAR

French Language and Literature (Arts and Science 1).

Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11.....Professors du Roure, Villard, Furness, d'Hauteserve, and Mme. Durand-Joly.

*Texts:*—(a) General Course.—Green and Ford, French Composition (Oxford); Lavis, Histoire de France, Cours moyens; Eugène, Labiche, La poudre aux yeux; Maupassant, Contes Choisis; A. Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford). (b) Advanced Course.—Buffum, French Short Stories (Holt); Racine, Andromaque (Ginn); Jules Romain, Knock ou le Triomphe de la médecine (The Century Co.); Molière, Les Précieuses Ridicules (Heath); Morand, French Composition (Oxford).

Students may take either the General Course or the Advanced Course.

## SECOND YEAR

French Commercial Course Arts and Science (12).

Mon., Wed., Fri., at 12.....Professor Villard.

*Texts:*—Chinard, Histoire de la littérature française; Richards, Manuel de lecture expliquée, XIXème siècle (Cambridge); Sand, La Mare au Diable (Ginn); Daudet, Lettres de mon moulin; Paileron, Le Monde où l'on s'ennuie; Carroué, Manuel de correspondance commerciale; Malakis, Le français du commerce (Holt).

*Home Readings:*—Augier, Le Gendre de M. Poirier; Louis Hémon, Maria Chapdelaine.

## THIRD YEAR

French Commercial Course (Arts and Science 13).

Mon., Wed., Fri., at 10.....Professor Villard.



*Texts*:—(a) Des Granges, Précis de littérature française; Montesquieu, Lettres Persanes (Macmillan); T. B. Rudmose-Brown, French Short Stories (Oxford); Chateaubriand, Atala (Heath). (b) Janau, Commercial Correspondence (Longmans); Jago, La France qui travaille (Heath); Daniel Massé, Initiation économique (Hachette).

*Home Readings*:—Renault, Lectures Commerciales (Oxford); Mérimée, Colomba.

## FOURTH YEAR

French Commercial Course (Arts and Science 14).

Mon., Wed., Fri., at 9.....Professor Villard.

*Texts*:—(a) Clerget, Manuel d'économie commerciale; Gide, Principes d'économie politique. (b) Lanson et Desseignet, La France et sa civilisation (Holt); Pargment, Trente-trois Contes et Nouvelles (Holt).

*Home Readings*:—Roe, La France laborieuse (Nelson); Calvert, The French newspaper (Oxford).

## THIRD AND FOURTH YEARS

During these Years one hour a week is devoted to a study of modern French literature. The remaining hours are taken up with commercial work, which may be conveniently divided into:—

(a) Commercial correspondence, study of trade reports, etc., in continuation of work begun in the Second Year; and (b) colloquial French.

(The text-book to be used for this part will be P. Clerget, Manuel d'économie commerciale.)

## GERMAN

The study of German extends through the First and Second Years. The Arts and Science courses in German are available to Commercial students.

Provision is also made for instruction in commercial correspondence.

## LAW

## THIRD YEAR

- (1) Law of Contracts.
- (2) Agency, Partnership and Company Formation.
- (3) Negotiable Instruments and Banking Law.



FOURTH YEAR

- (1) Company Law.
- (2) Sale of Goods.
- (3) Insurance Law.
- (4) Trustees and Executors.
- (5) Bankruptcy and Winding-up Acts.

MATHEMATICS

1. **Mathematics** (For First Year students).

Geometry and Trigonometry. Three hours, first term.

Algebra. Three hours, second term.....Professor Tate.

*Text-books*:—Hall, H.S., School Algebra, Parts I and II; Hall and Knight, Plane Trigonometry (Revised Canadian Edition); Hall and Stevens, School Geometry, Parts I to VI.

42. **Mathematics** (For Second Year students).

Interest and Bond Values. Elementary Insurance.

Tu., Th., Sat., at 10.....Professor Tate.

*Text-books*:—H. Tate, Interest, Annuities and Bonds; S. Huebner, Life Insurance.

43. **Mathematics** (For Third and Fourth Year students).

Statistics.

Half course of 24 lectures delivered during the second term on

Tu., Sat., at 11.....Professor Tate.

*Text-books*:—Lovitt and Holtzclaw, Statistics; Knight, Life Insurance.

The following Arts and Science courses in Mathematics are also open to qualified students in the School of Commerce during the Second, Third and Fourth Years:—

3. **Calculus.**

Three hours during the session; Tues., Thurs., and Sat., at 12.  
Professor Sullivan.

4. **Algebra and Analytical Geometry.**

Three hours during the session; Mon., Wed., and Fri., at 10  
Professor Howat.

8. **Theory of Equations and Higher Algebra.**

Three hours during the session.....Professor Sullivan.

*Text-books*:—Burnside and Panton, Theory of Equations; Fine, College Algebra; Milne, Higher Algebra.



### 9. Finite Differences and Theory of Probability with Applications.

Three hours during session.....Professor Tate.

*Text-books:*—Spurgeon, Institute of Actuaries Text-Books, II; Borel, Probability; A. Fisher, Probabilities; Henry, Calculus and Probability; J. L. Coolidge, Probability.

- (a) Courses 8, 9 are mainly intended for students who wish to enter the Actuarial profession.
- (b) Course 42 is a prerequisite for those who wish to take Third and Fourth Year Accountancy.
- (c) Courses 3, 4, 8 and 42 are prerequisite for 9. First class standing in these is required before proceeding to Course 9.

### PHYSICS

The course in Commercial Physics consists of two lectures and a two-hour laboratory period each week. The object of the course is to introduce the students to the various scientific laws, so as to make them familiar with the principles underlying the appliances and phenomena of every-day life. In the laboratory the students are required to make measurements and observations under the guidance of instructors. The following headings are indicative of the nature of the course given:—

Simple machines; mechanics of liquids and gases; elasticity and strength of materials; accelerated motion; force; energy; momentum; effects of heat; heat engines; a history of the developments in magnetism and electricity; battery currents; induced currents; electric power; alternating current machines; sound production and transmission; sound phenomena; sound as related to music; lamps and reflectors; lenses and optical instruments; spectra and colour phenomena; Roentgen rays and electric waves in general.

The lectures are given by Professor H. E. Reilley and the laboratory work is under the guidance of Professor D. A. Keys, with the aid of several demonstrators.

*Text-book:*—Whitman's Household Physics.

### SPANISH

#### FIRST YEAR

The work in the First Year consists of:—

Grammar, reading and dictation, oral exercises and composition.

*Text-books:*—Coester's Spanish Grammar; Jiménez's "Platero y yo"; Antología de cuentos españoles (Heath & Co.); Cool's Spanish Composition; Historia de España (Romera-Navarro ed., Heath & Co.).

Tues., Thurs., Sat., at 10.....Professor Sugars.



## SECOND YEAR

The work, as before, consists of grammar, practice in reading and speaking, dictation and composition. At the same time the student is given a further introduction to Spanish literature.

*Text-books*:—Lazarillo de Tormes, (Johnson Publishing Co.); "Los intereses creados," Benavente, (Heath & Co.); Nociones de Literatura Castellana (Romera de Terreros); Cool's Spanish Composition; Spanish Free Composition (Peers).

Tues., Thurs., Sat., at 11.....Professor Sugars.

## THIRD YEAR

More extensive work in literature. Lectures on Spanish literature in the Third and Fourth Years are given in Spanish.

*Text-books*:—

- (a) Moratin, *El sí de las niñas* (Ginn & Co.); Selections from "El Quijote" (Heath & Co.); Galdos' *Zaragoza*; "Historia de la literatura española," Romera-Navarro (Heath & Co.); Spanish Free Composition (Peers); *Temas españoles* (Crawford ed., Henry Holt & Co.).

- (b) Advanced work:—

In addition to the above, Study of Spanish verse and of the following texts: Garcilaso de la Vega, First and Second Eclogues (Oxford Press); Alarcon's, *La Verdad Sospechosa* (Heath & Co.); Selected "romances" and sonnets.

Mon., Wed., Fri., at 9.....Professor Sugars.

Students in Third and Fourth Years are expected to read the work entitled "Companion to Spanish Studies," edited by Professor Allison Peers.

## FOURTH YEAR

A study of the modern Spanish novel:—

*Text-books*:—Pereda, *Pedro Sánchez* (Ginn & Co.); Valdés, José (Heath & Co.); Azorin, *España*; Blasco Ibañez, *La Barraca*; Romera-Navarro's "Historia de la literatura española," (Heath & Co.); Romera-Navarro's "Manual del Comercio" (Henry Holt & Co.); Costello y Montgomery's "Advanced Spanish Composition, (Johnson Publishing Co.).

Advanced work:—In addition to work prescribed above:—Marquina, *En Flandes se ha puesto el Sol* (Heath & Co.); Don Quijote; Spanish lyric poetry in "Siglo de oro."

Tues., Thurs., Sat., at 9.....Professor Sugars.



## MARINE INSURANCE AND TRANSPORTATION

Administration and organization of inland and ocean transportation, including the early history of transportation; meaning and importance of railroad statistics; transport and storage of commodities of a perishable and special character; transportation law; marine insurance.

Thurs., at 11.....Mr. McCulloch.



## FOUR-YEAR COURSE

(For Students of the Accountancy Association of the Province of Quebec)

### INTERMEDIATE ACCOUNTING AND AUDITING

Twenty-eight lectures, of two hours each, given on Wednesdays, from 5.30 to 7.30 p.m., commencing October 7th, 1931.

The work covers matter outlined for the first two years of the regular Commerce Course, with the addition of elementary auditing and company finance. Lecturer.....Professor R. R. Thompson.

### INTERMEDIATE MATHEMATICS

Twenty-five lectures of 1½ hours each, given on Fridays, from 5.30 to 7 p.m., beginning October 2nd, 1931.

The course covers the following subject matter:—Arithmetic and geometric progressions; indices; logarithms; permutations and combinations; binomial theorem; theory of Quadratic Equations; approximations; graphs; simple and compound interest; annuities and sinking funds.

*Text-books:*—Hall, H. S., School Algebra, Parts I and II; H. Tate, Interest, Annuities and Bonds (Chaps. I, III).

Lecturer....Professor Herbert Tate.

### INTERMEDIATE COMMERCIAL LAW

Forty-eight lectures, of 1½ hours each, given on Tuesdays and Thursdays, from 5.30 to 7 p.m., commencing October 1st, 1931. Of these lectures, 16 are devoted to the Law of Contracts, 16 to Negotiable Instruments, and 16 to Agency and Partnerships.

The matter covered may be outlined as follows:—

#### Law of Contracts.

Sphere of Dominion and Provincial laws; persons (minors, interdicts, married women); distribution of property; essentials of contract (consent, capacity, object, consideration); interpretation; effects; breach.

#### Negotiable Instruments and Banking.

Characteristics of negotiability; Bills of Exchange Act; form, acceptance; delivery; capacity and authority of parties; consideration; negotiation; endorsements; presentment; dishonour; protest; liabilities of parties; discharge; lost instruments; forgeries or unauthorized signatures; alterations; bills in a set; cheques; promissory notes.



Bank Act.—Organization of a bank; rights and duties of directors and shareholders; auditors; powers of a bank re loans; security; deposits and note issue.

### Agency and Partnerships.

General provisions covering mandate; obligation of mandatory towards mandator, and towards third parties; obligations of the mandator towards the mandatory and towards third persons; résumé of law covering advocates, attorneys, notaries, brokers, factors, etc.; termination of mandate.

General provisions relating to partnership; obligations and rights of partners amongst themselves and towards third parties; different kinds of partnership, particular partnerships, general partnerships, anonymous partnerships, and limited partnerships; dissolution of a partnership, and the effects of such dissolution.

Lecturers.....Mr. A. I. Smith and Mr. W. C. Nicholson.

### FINAL ACCOUNTING AND AUDITING

This course consists of (a) general series comprising 30 lectures of 1½ hours each, and (b) a special series comprising 14 lectures of 1½ hours each. Mondays and Thursdays, from 6 to 7.30 p.m., beginning October 1st, 1931.

#### General Series.

This portion covers the following subject matter:—

Capital, its issue and recording in the books of a company; bonds and bond discount and premiums; auditing; current and fixed assets and liabilities; auditing; capital and revenue profits and losses; criticism of operating statements and balance sheets for successive periods; cost accounting; partnership; instalment sales; branch accounts; holding companies and subsidiaries; reorganizations, mergers and amalgamations; executorship and trustee accounts; auditing; bankruptcy.

Lecturers: Professor R. R. Thompson and Messrs. P. F. Seymour, and L. N. Buzzell.

#### Special Series.

This series includes special consideration of the following subjects:—

Income tax; insurance and banking; working papers; investigations; brokers' accounts, etc.

Lecturers: Messrs. G. Hunter, H. D. Clapperton, D. Young, A. A. Gowan, P. F. Seymour, and G. Currie.



FINAL MATHEMATICS

**Elements of Actuarial Science.**

Twenty-five lectures, of  $1\frac{1}{2}$  hours each, on Wednesdays, from 5.30 to 7 p.m., beginning October 7th, 1931.

The course embraces:—

The amortization schedule; straight-term, serial and annuity bonds; depreciation; building and loan associations. Elementary Insurance. Elementary Statistics.

Lecturer.....Professor Herbert Tate.

*Text-books:*—H. Tate, Interest, Annuities and Bonds (chapters I-VII); J. B. Maclean Life Insurance; S. Huebner, Life Insurance; Lovitt and Holtzclaw, Elementary Statistics.

FINAL COMMERCIAL LAW

Forty-four lectures, of  $1\frac{1}{2}$  hours each, to be given on Tuesdays and Thursdays, from 5.30 to 7.00 p.m., beginning October 1st, 1931. Of these lectures, 14 are devoted to the Sale of Goods; 14 to Company Law; 8 to Trustees and Executors, and 8 to Bankruptcy and Winding-up.

The following outline indicates the subject matter covered:

*Sale of Goods:* General provisions regarding sales; capacity to buy and sell; things which may be sold; obligations of the seller; delivery; warranty against eviction and latent defects; obligations of the buyer; dissolution and annulment of contract of sale; right of redemption; annulment on account of lesion; sales by licitation; sales by auction; bulk sales; forced sales and giving in payment.

*Company Law:* The Companies' Act (Dominion) and its amendments; the Quebec Companies' Act, 1920, and its amendments. (In these Acts, Part 1 is principally dealt with. The statutory provisions are explained and illustrated by citation and discussion of jurisprudence.)

*Trustees and Executors:* Provisions of the Civil Code dealing with persons administering funds belonging to others; status of married women; law applying to tutors and curators; law relating to succession.



*Bankruptcy and Winding-up:* Provisions of the Bankruptcy Act; the Dominion Winding-up Act; law of the Province of Quebec relating to the voluntary winding-up of companies. (The statutory provisions are explained and illustrated by citation and discussion of jurisprudence.)

Lecturers: Messrs. J. A. Mathewson, W. C. Nicholson, and K. A. Wilson.

#### ECONOMICS

Course of 20 lectures, of 1 hour each, on Elementary Economics. On Fridays, from 5.30 to 6.30 p.m., beginning October 2nd, 1931.

Lecturer.....Professor J. P. Day.

N.B.—Hours and date of lectures are always subject to change for sufficient cause.

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The examinations in the above-mentioned subjects are held at the end of the course. In order to pass, a student must obtain 60 per cent of the marks assigned to Economics and to each portion of the examinations in Commercial Law and Mathematics, and an average of 60 per cent in Accountancy and Auditing, with not less than 55 per cent in either of them. A student who fails may repeat the course and the examination on payment of the full fee. This is necessary in the case of any student who has obtained less than 40 per cent of the marks assigned. A student, however, who has obtained 40 per cent or more, but less than 60 per cent of the marks assigned need only repeat the examination, paying therefor the corresponding fee. See p. 243.



**FINAL EXAMINATION IN ACCOUNTING AND AUDITING**

The Final examination in Accounting and Auditing is held in the month of May each year, before a joint board of examiners, consisting of the six mentioned on page 15 and of two members named by each of the three Associations of the Province.

The fee for this Final examination in Accountancy and Auditing is additional to the fee paid for the course. In the case of McGill Commerce graduates the fee for this Final examination is \$25, to be paid to the University. In the case of students of the various Associations, the fee is also \$25, to be paid into a common fund for examination expenses. This fund belongs to the Association and is administered by them.

In order to pass in this Final examination a student must obtain 60 per cent or more of the marks assigned, with not less than 55 per cent in either of the subjects.

A student who fails may, on repayment of the examination fee, present himself again for examination in the following May. If he has obtained less than 40 per cent he must also repeat the final course in Accountancy and Auditing, paying therefor the full fee.

Candidates are permitted to proceed from the Intermediate to the Final stage, if conditioned in not more than one subject, which must not be Accountancy and Auditing. For the purposes of this regulation, Law constitutes one subject and Mathematics one subject. But no student can sit for the Final examination in Accountancy and Auditing who has not passed all his Intermediate and Final examinations in Commercial Law and Mathematics, and his examination in Political Economy.

A candidate who fails in one or more of the divisions into which the Law curriculum is divided, should bear in mind that he has only to be re-examined in the portion or portions in which he may have failed. If he obtained less than 40 per cent in any portion or portions he must repeat the lectures in those portions, paying therefor the fee indicated on page 243.

No student receives any credit for any course, or is allowed to sit for any examination, unless he has complied with all the regulations of his Association affecting such course and examinations. Every student should, therefore, acquaint himself with the rules and by-laws of his Association.

All students taking either the Intermediate or the Final examinations must make formal application to Professor R. M. Sugars on or before April 1st. In making such application a student should state when he took the lectures given in connection with each examination. His application should be accompanied by the corresponding fee, except



in the case of Final Accountancy and Auditing. The fee for any Association candidate who wishes to present himself for the Final Accountancy and Auditing examination must be paid to the Association with which the candidate is connected.

No examination is given to non-Association students in Final Accounting and Auditing.

For all further information, apply to Professor R. M. Sugars, Director of the Course.



**SCHOOL OF COMMERCE**  
**Lecture Time Table, 1931-1932**

Hour	Year	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	1 2 3 4	Mathematics Accountancy Spanish French, 14	Economics, 21  Spanish	Mathematics Accountancy Spanish French, 14	Economics, 21  Spanish	Mathematics Accountancy Spanish French, 14	Economics 21  Spanish
10-11	1 2 3 4	{ Psychology, 1 Mathematics, 4 French, 13 Economics, 28, 29	Spanish Mathematics, 42 Accountancy Economics, 27	{ Psychology, 1 Mathematics, 4 French, 13 Economics, 28, 29	Spanish Mathematics, 42 Accountancy Economics, 27	{ Psychology, 1 Mathematics, 4 French, 13 Economics, 28, 29	Spanish Mathematics, 42 Accountancy Economics, 27
11-12	1 2 3 4	{ French Mathematics Economics, 22 Accountancy	History Spanish Business Organization (1st term) Mathematics, 43 (3 & 4), 2nd term	{ French Mathematics Economics, 22 Accountancy	History Spanish Business Organization (1st term) Mathematics, 43 (3 & 4), 2nd term	{ French Mathematics Economics, 22 Accountancy	History Spanish Business Organization (1st term) Mathematics, 43 (3 & 4), 2nd term
12-1	1 2 3 4	Accountancy French, 12 Economics, 23 (a), 24 (b)	English Mathematics, 3	Accountancy French, 12 Economics, 23 (a), 24 (b)	English Mathematics, 3 Marine Insurance	Accountancy French, 12 Economics, 23 (a), 24 (b)	Mathematics, 3
2-3	1 2 3 4	{ Biology Chemistry		{ Biology Chemistry		{ Biology Lab. Chemistry	
3-4	1 2 3					Biology Lab.	
4-5	1 2 3 4	Physics	Physics	Physics Lab.			
5.30-7		Accountancy (Final) 6 to 7.30 p.m.	3 and 4 Commercial Law (Inter. and Final)	Accountancy (Inter.) Mathematics (Final)	3 and 4 Commercial Law; (Inter. and Final). Accountancy (Final)	Mathematics (Inter.) Economics (Final) 5.30 to 6.30 p.m.	

LECTURE TIME TABLE



## FACULTY OF ENGINEERING

### DEGREES, EXAMINATIONS AND SOCIETIES

#### 1. DEGREES

The degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are:—"Bachelor of Architecture" (B.Arch.) and "Bachelor of Engineering" (B.Eng.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Engineering degree in one of the courses provided by the Faculty may graduate in any other course by attending one or more subsequent sessions and passing the prescribed additional examinations.

#### PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates in Engineering, the following may be specially mentioned:—

(1) By a resolution of the Institution of Civil Engineers (England) the holders of the degree of B.Eng., in the courses of civil, electrical, mechanical and mining engineering, who are desirous of becoming Associate Members of the Institution, may under certain conditions be exempted from the examination prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyors' certificate shortened from three years to one.

(3) Holders of the degree of B.Eng. are admitted to practice in Quebec, upon graduation, provided they register with the Corporation of Professional Engineers of Quebec upon entering the Faculty. Students entering the Faculty should therefore obtain the necessary application forms from the Dean's office, fill them and return them there.

(4) The McGill School of Architecture is recognized by the Royal Institute of British Architects, and the instruction given meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

(5) The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership and thereby to practice in the Province, on passing an examination in design after spending one year in the office of a member of the Association. This office experience may be gained by work during the summer vacation.



## 2. EXAMINATIONS

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held from time to time, at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum shall, except in cases where they are called upon to repeat their year, be required to make good their standing by passing:—

- (a) the regular supplemental examinations held immediately before the opening of the session, or
- (b) the final examinations in a subsequent session, or
- (c) special examinations, which shall be given only under exceptional circumstances and by authority of the Faculty.

3. The pass standard in examinations in subjects in which the candidate has already failed twice is sixty per cent, and an unexcused absence from a sessional examination is regarded as a failure in this connection.

4. Failures in drafting and laboratory subjects may under certain conditions be made good by attending special classes during the late afternoons of the first two months of the following session. These classes must be completed and the results reported to the Faculty on or before December 1st.

5. No undergraduate will be allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects, for particulars regarding which see page 93.

## 3. ENGINEERING SOCIETIES

1. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada for which a fee of \$3.00 is required. They are then entitled to the monthly Journal of the Institute, to the use of the Institute's rooms, 2050 Mansfield Street, and to attend the weekly meetings there.

Students are invited to compete for the prizes, which are offered by the Institute.

2. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body (see page 334), is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered.



### ADVANCED STANDING FOR GRADUATES IN ARTS AND SCIENCE

- (1) *Graduates in Arts and Science proceeding to the Degree of Bachelor of Architecture.*

Students who have received the degree of B.A. or B.Sc. from McGill University may enter the Second Year in Architecture under the following conditions:—

- (a) They must have passed in the following subjects in the Faculty of Arts and Science:—Mathematics 1, Physics 1, 2; History 1.
- (b) Not later than October 10th of the Third Year in Arts and Science (two years before entering Architecture) they must consult the Head of the School of Architecture and arrange for tuition in Architectural Drawing, Freehand Drawing and Architectural Geometry. They must report to him from time to time and give evidence of, or pass tests in, the work they are doing. These subjects will be taken either by private tuition or in the regular classes, as may be arranged.
- (c) The regular school in Surveying Fieldwork must be taken for two weeks immediately following the Fourth Year in Arts and Science, and two additional weeks of Fieldwork are required in the following September.

- (2) *Graduates in Arts and Science proceeding to the Degree of B.Eng.*

Students who have received the degree of B.A. or B.Sc. in Arts and Science from McGill University may enter the Second Year of the Engineering courses under the following conditions:—

- (a) They must have passed in the following subjects in the Faculty of Arts and Science:—Chemistry 1 and 1C; Mathematics 1, 3 and 4; Physics 1, 2 and 4.
- (b) Not later than October 10th of the Third Year in Arts and Science (two years before entering Engineering) they must consult the Professor of Drawing and arrange for tuition in Descriptive Geometry, Freehand Drawing and Mechanical Drawing. They must report to him from time to time and pass the prescribed tests in these subjects.
- (c) Similar arrangements must be made with respect to Engineering Problems, or else the regular class must be taken.
- (d) The regular school in Surveying Fieldwork must be taken for two weeks immediately following the Fourth Year in Arts and Science, and two additional weeks of Fieldwork are required in the following September.



## COURSES OF INSTRUCTION

The instruction in this Faculty is designed to afford a thorough training of a practical as well as theoretical nature, in the following branches:—

- I.—ARCHITECTURE.
- II.—CHEMICAL ENGINEERING.
- III.—CIVIL ENGINEERING.
- IV.—ELECTRICAL ENGINEERING.
- V.—MECHANICAL ENGINEERING.
- VI.—METALLURGICAL ENGINEERING.
- VII.—MINING ENGINEERING.

Details of graduate courses are stated, following the lists of subjects given by the different departments; see also the announcement of the Faculty of Graduate Studies and Research. A course is also offered in Engineering Physics, particulars of which are given on pages 165 and 287.

## CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by the Faculty, and is in no case binding beyond the session covered by this calendar announcement.

Four years of study are required for a degree in any branch of Engineering, and five years for the degree in Architecture.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to the Faculty of having had six or eight months of experience in practical engineering work. Similar regulations apply to the degree in Architecture. The conditions regarding practical work in the School of Architecture are set forth under the heading of Summer Work, Course 50, on page 66. Forms, obtainable from the Dean's Office, must be signed by the employer and returned on or before 1 p.m. October 10th, 1931.

The work prescribed for the first two years is the same in all courses, except in that leading to the degree of Bachelor of Architecture (Course I).

The first two years of the Engineering courses (II to VII) are devoted mainly to mathematics, mechanics, physics, chemistry and drawing, as it is deemed necessary that students in these courses should master the general principles underlying scientific work before commencing professional subjects.

In certain courses, students are required to attend Summer Schools following the completion of the work of the session in the First, Second, and Third Years; for details, see page 289.

The regular work of the session 1931-32 will begin on October 1st, 1931, and end on May 27th, 1932.



## 1. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over five years. Full information is given in the Announcement of the School, which will be sent to interested persons upon request to the Registrar of the University.

An essay on an historical or theoretical subject is required in each term from all students following the historical or theoretical courses.

In all courses studio work goes hand in hand with oral teaching, with a view to the practical application of the theory, while at the same time affording opportunity for the acquisition of power in draughtsmanship and practice in design.

## FIRST YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Algebra.....	Arts. 1\	3	3	..	..	297
Geometry and Trigonometry..	Arts. 1\	..	..	..	..	297
Mechanics.....	194	2	2	..	..	320
Physical Education.....	..	..	..	..	..	635
Physics.....	Arts. 1	2	2	1	1	336
Physics Lab.....	Arts. 1	..	..	1	1	336
Elements of Architecture..	5	1	1	..	2	295
Architectural Geometry I.....	18	..	..	2	1	299
Building Construction I.....	23A	..	..	1	4	297
Architectural Drawing.....	33	..	..	4	1	299
Freehand Drawing.....	38	..	..	2	2	299
*Surveying Fieldwork.....	347	..	..	..	..	339

\*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 289 and 340.)

Any undergraduate student of the First Year in the course in Architecture who at the close of the first term has failed to obtain an average of 33 per cent in the following five subjects, viz.: mechanics, geometry and trigonometry, physics, freehand drawing, and architectural drawing, may be required to withdraw from the Faculty.

Any other student of the First or any subsequent year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year in the School of Architecture who have passed their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations or in three such subjects aggregating over 300 possible marks, are required to repeat the work of the First Year, and while so doing are debarred from taking any more advanced work.



## SECOND YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design A.....	1	..	..	3	3	294
History of Art.....	6	1	1	..	..	295
Building Construction II.....	24	1	1	..	..	298
Building Details.....	25	..	..	2	2	298
Arch. Engineering I.....	26	1	1	..	..	298
Arch. Eng. (Draughting) I.....	27	..	..	1	1	298
History of Classic Arch.....	14	2	2	..	..	296
Arch. Geometry II.....	19	..	..	1	1	299
Surveying.....	346	2	2	..	..	338
Mapping.....	348	..	..	1	1	338
Freehand Drawing.....	39	..	..	1	1	299
Physical Education.....	..	..	..	2a	2a	635
Summer Work.....	50	..	..	..	..	289
*Surveying Field Work.....	347	..	..	..	..	339
Architectural Essay.....	46	..	..	..	..	299

\*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April. In the case of students entering from other Universities, this work should be done before entering the Second Year in Summer Schools, as shown on page 289.

*All students of the Second Year in the School of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in subjects aggregating not less than 350 possible marks, are required to repeat the Second Year.*

## THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design B.....	2	..	..	4	4	294
Theory of Design*.....	7	1	1	..	..	295
Arch. Engineering, II A.....	28	1	1	..	..	298
Arch. Eng. (Draughting), II A.....	29	..	..	1	1	298
History of Mediaeval or Renaissance Arch.†.....	15 or 16	2	2	..	..	296
Ornament and Decoration‡.....	9 and 10 or 11 and 12	1	1	1	1	295
Building Materials.....	34	1	1	..	..	298
Freehand Drawing.....	40	..	..	2	2	299
Architectural Drawing.....	35	..	..	1	1	299
Architectural Essay.....	47	..	..	..	..	299
Summer Work and School.....	50	..	..	..	..	299

\*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1931-32, the History of Renaissance Architecture will be given.

‡Ornament and Decoration, courses numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1931-32, numbers 9 and 10 will be given.

NOTE.—In the School of Architecture after two failures in any subject a third examination will be granted only after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see page 290.



## FOURTH YEAR

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design C.....	3	..	..	4	4	294
Theory of Planning*.....	8	1	1	..	..	295
Arch. Engineering, II B.....	30	1	1	..	..	298
Arch. Eng. (Draughting), II B.....	31	..	..	1	1	298
History of Mediaeval or Renaissance Architecture†.....	15 or 16	2	2	..	..	296
Ornament and Decoration‡.....	9 and 10 or 11 and 12	1	1	1	1	295
Architectural Drawing.....	36	..	..	1	1	299
Freehand Drawing.....	41	..	..	1	1	299
Modelling.....	42	..	..	1	1	299
Hygiene.....	22	1	..	..	..	297
Heating and Ventilation.....	23	..	1	..	1	297
Architectural Essay.....	48	..	..	..	..	299
Summer Work and School.....	50	..	..	..	..	299

## FIFTH YEAR

Design D.....	4	..	..	7	7	294
Modern Architecture.....	17	2	2	..	..	297
Professional Practice.....	32	2	2	..	..	298
Engineering Law.....	175	1	1	..	..	298
Architectural Drawing.....	37	..	..	1	1	299
Modelling.....	43	..	..	1	1	299
Architectural Essay.....	49	..	..	..	..	299
Summer Work.....	50	..	..	..	..	299

\*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1931-32, the History of Renaissance Architecture will be given.

‡Ornament and Decoration, courses numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1931-32, numbers 9 and 10 will be given.

NOTE.—In the School of Architecture after two failures in any subject a third examination will only be granted after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see page 290.



## ENGINEERING COURSES

The subjects of instruction in the first two years of the Engineering Courses (II to VII), and the number of hours per week devoted to each, are as follows:—

## FIRST YEAR

SUBJECT	No.	Lectures per week		Laboratory, etc., Hours per week		For details see pages
		First Term	Second Term	First Term	Second Term	
Chemistry and Lab.....	51 & 52	2	2	3	3	301
Descriptive Geometry.....	341	1	1	2	2	312
Drawing—Freehand and Lettering.....	{342 343}	1	1	2	2	312
Drawing—Mechanical.....	340	..	..	3	3	312
Engineering Problems.....	80	..	..	3	3	306
History of Science.....	170	1	1	..	..	316
Plane Trigonometry.....	{191 192}	6	6	3	3	320
Algebra.....	193	..	..	..	..	..
Mensuration.....	194	..	..	..	..	..
Mechanics.....	{311 312}	2	2	2	2	337
Physics and Laboratory.....	..	..	..	..	..	335
Physical Education.....	347	..	..	..	..	338
*Surveying Fieldwork.....	132	..	..	..	..	291
Summer Reading.....	..	..	..	..	..	..

\*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 289 and 338).

Any undergraduate student of the First Year, who at the close of the first term has failed to obtain an average of 33 per cent in the following six subjects:—chemistry, mechanics, plane trigonometry, algebra, physics, and descriptive geometry, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 350 possible marks, are required to repeat the work of the First Year, and while so doing are debarred from taking any more advanced work.



## SECOND YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., hours per week		For details see page
		First Term	Second Term	First Term	Second Term	
Chemistry.....	53	2	2	..	..	301
Descriptive Geometry.....	345	1	1	2	2	313
Engineering Reports.....	131	1	1	2	2	316
Mapping.....	348	..	..	3	3	338
Materials of Construction....	81	..	..	..	..	306
Analytical Geometry.....	197	5	4	..	..	320
Calculus.....	198					
Mechanical Drawing.....	344	..	..	3	3	313
Mechanics.....	83	2	2	2	2	306
Mechanics of Machines.....	218	..	1	..	1	321
Physics and Lab.....	315-316	2	2	2	2	337
Physical Education.....	..	..	..	..	..	335
Surveying.....	346	2	2	..	..	338
Surveying Fieldwork*.....	347	..	..	..	..	338
Summer Essay or Reading....	133	..	..	..	..	290

\*Surveying Field Work is done in the four weeks immediately following the close of the First Year examination in April (about April 30th, 1931) (see pages 338 and 289). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 289).

*All students of the Second Year who have pursued<sup>p</sup> their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.*



## II. CHEMICAL ENGINEERING

The aim of the work in Chemical Engineering is to prepare students for positions demanding a knowledge of both chemistry and engineering. The duties of a chemical engineer require him to be conversant with chemical processes and the installation of chemical units, and to understand the construction of buildings, the installation and operation of machinery, etc. Accordingly the curriculum combines a considerable amount of engineering with the maximum of chemical training that can be attained without over-pressure.

Between the Second and Third Years, students must attend a Summer School of four weeks in the chemical laboratories.

In the Third Year specialization commences, the time being divided about equally between chemical and engineering studies, and in the vacation between the Third and Fourth Years all students must give at least six weeks to work in some chemical or engineering industry or to equivalent laboratory work satisfactory to the Director of the Department of Chemistry.

In the Fourth Year the engineering studies are completed, and the chemical studies which predominate are arranged in two alternative groups. These alternative groups are broadly (a) inorganic, (b) organic, as indicated in the table below, one or other of which the student must select. Should a student desire to prepare for an industry which requires more engineering knowledge than is provided in the regular curriculum he may substitute additional engineering subjects for some of the chemical work. Details will be arranged on application to the Faculty through the Director of the Department of Chemistry.

### FIRST AND SECOND YEARS

As in other Engineering Departments (see pages 273 to 274), with additional Summer School for students entering Third Year. (See page 289.)



## THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Crushing Machinery.....	295	2	..	..	..	332
Economics.....	171	..	2	..	..	316
General Elem. Metall.....	262	2	..	..	..	327
Inorg. Quant. Anal. & Lab...	61	1	..	3	3	302
Mech. Eng. and Lab.....	226 and 228	2	2	1	1	322
Mineralogy.....	142	2	2	..	..	318
Mineral. Deter.....	143	..	2	..	..	318
Organic Chemistry and Lab.	56-57	3	2	..	2	301
Physical Chemistry.....	58	2	1	..	..	302
Strength of Materials and Lab.....	87-88	2	2	..	1	307
Structural Engineering.....	90	..	1	..	1	308
†Summer School, Inorg. Qual. Anal. and Lab.....	54 and 55	..	..	..	..	301
Summer Essay or Reading..	133	..	..	..	..	292

†See page 289.

## FOURTH YEAR.

Adv. Inor. Chem.....	72	2(a)	2(a)	..	..	305
Adv. Org. Chem. and Lab..	65	2(b)	3(b)	4(b)	4(b)	303
Electro-Chem.....	70	2	..	..	..	304
Colloid Chemistry.....	75	2	2†	..	..	305
Elem. of Elec. Eng. and Lab.	111-112	2	2	1	1	313
Engineering Economics.....	172	2	..	..	..	317
Engineering Law.....	175	1	1	..	..	317
Fire Assaying and Lab.....	273	1(a)	..	1(a)	..	329
†History of Chemistry.....	74	..	1	..	..	305
Hydraulics.....	100	1	..	1/2	..	310
Industrial Inorg. Chemistry.	68	2	..	..	..	304
Industrial Organic Chem...	69	..	2	..	..	304
Inorganic Laboratory.....	67	1(a)	..	3(a)	4(a)	303
Metallography and Lab....	282	1/2(a)	..	1/2(a)	..	330
Phys. Chem. and Lab.....	66-66(A)	3	3	2	2	303
Summer Essay.....	134	..	..	..	..	293

(a) Inorganic alternative.

(b) Organic alternative.

† Optional.



## III. CIVIL ENGINEERING

The courses of study are designed to emphasize the fundamental principles embodied in the study of mechanics, strength of materials, design of structures, and hydraulics, while at the same time affording an opportunity of applying these principles to practical problems ranging over as wide a portion as possible of the field covered by the practice of civil engineers. A broad and sound foundation is thus laid for future specialization, either in graduate courses or in actual practice. The outlook of the student is further broadened by courses in Mechanical and Electrical Engineering. In the Fourth Year an alternative course is provided for students looking forward to municipal engineering or city management. In the designing courses special attention is given to the interpretation and critical discussion of specifications as well as to the economical principles involved. Students are recommended to obtain as much practical experience as possible during the summer vacation, and are specially recommended to spend at least one season in a drafting office before the final year.

## FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 273 and 274, with additional Summer School for students entering Third Year. (See page 289.)

101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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## THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics .....	171	..	2	..	..	316
Foundations .....	89	1	1	..	1	307
Geology, General .....	141	3	3	1	1	317
Highway Engineering .....	85	..	2	..	2	309
Hydraulics and Lab .....	97-98	2	..	1	..	308
†Map Projections (alt.) .....	351	..	..	1	..	338
Mech. Eng. and Lab .....	226, 228	2	2	1	1	322
Mechanics .....	86	2	..	..	..	307
Railway Eng. ....	92-93	2	..	2	..	308
†Sanitary Science (alt.) .....	82	1	..	1	..	309
Strength of Mats. and Lab. ....	87-88	2	2	..	1	307
Structural Eng. ....	90	..	1	..	1	308
Surveying .....	353	2	2	..	..	339
Surveying Field Work .....	354	..	..	..	..	339
Summer Reading or Essay .....	133	..	..	..	..	292

†Map Projections (351) is alternative with Sanitary Science (82).

## FOURTH YEAR

Elements of Elec. Eng. & Lab...	111-112	2	2	1	1	313
Engineering Economics .....	172	2	..	..	..	317
Engineering Law .....	175	1	1	..	..	317
Geodesy and Lab .....	359, 360	2	..	1	..	339
†Geodetic Fieldwork .....	361	..	..	..	..	339
Strength of Materials .....	95	2	1	..	1	309
Theory of Structures .....	94	1	2	1	2	309
<i>and either</i>						
{ Bridge Design .....	96	2	2	2	2	310
{ Hydraulic Machines .....	99	..	2	..	..	310
{ Municipal Engineering .....	101	2	2	..	1	310
<i>or</i>						
{ Bridge Design .....	96a	2	2	2	1	310
{ Civic Administration .....	104	1	..	..	..	311
{ Waste Disposal .....	103	1	..	..	..	311
{ Water Sup. and Sewerage .....	102	..	3	..	2	311
Summer Essay .....	134	..	..	..	..	293

†See page 289.



## IV. ELECTRICAL ENGINEERING

The Third Year of the Electrical Engineering course has been designed to provide the student with a broad engineering training. Thus courses in Mechanical Engineering, Thermodynamics, and Strength of Materials occupy a large place in the syllabus, although the greatest emphasis is placed on the study of the principles of Electrical Engineering.

During the first term, the course in Electrical Engineering theory includes a study of the laws of Electro-magnetism, and of the Electric Circuit, followed by an analysis of the theory and operation characteristics of direct current machinery. In the second term, a study is made of alternating current flow in single phase and polyphase circuits. This theoretical training is applied in the laboratory and in the solution of set problems.

One term courses in Differential Equations and in Molecular Physics prepare the student for the Electrical Circuit theory and Electrical Communication courses of the Fourth Year.

The Fourth Year is devoted almost entirely to electrical engineering studies.

Technical courses cover the generation, transmission and distribution of electric power, and include lectures and laboratory work on direct and alternating current phenomena, the performance and design of electrical machinery, electric lighting and the various systems of power distribution and transmission. Courses are given on central station design, electrical traction systems, hydro-electric power development, electro-chemistry, electrical measurements and communication engineering.

Visits are made to electrical works and power plants.

## FIRST AND SECOND YEARS

As in other Engineering Courses. (See pages 273 and 274.)



## THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Calculus.....	201	2	..	..	..	321
Economics.....	171	..	2	..	..	316
Electrical Engineering.....	113	4	4	..	..	314
Electrical Engin. Lab.....	114	..	..	4	4	314
Machine Design.....	225	2	2	..	..	322
Mech. Eng. and Lab.....	223, 226	2	2	2	1	322
Mechanics.....	86	2	..	..	..	307
Thermodynamics.....	229	2	2	..	..	323
Strength of Mats. and Lab....	87, 88	2	2	..	1	307
Physics.....	318	..	2	..	..	337
Summer Reading or Essay....	133	..	..	..	..	292
Total Time		16	16	6	6	

## FOURTH YEAR.

Electrical Design & Problems ..	122	1	1	1	2	315
Electrical Engineering.....	117	4	4	..	..	314
Electrical Measurements.....	124	2	..	..	..	315
Electrical Engineering Lab....	118	..	..	3	4	314
Communication Eng. and Lab...	125	2	2	1	..	316
Applications of Electricity.....	123	..	3	..	..	315
Elec. Light & Power Distr.....	120	2	..	..	..	315
Hydraulics & Lab.....	97, 98	2	..	1	..	308
Economics.....	172	2	..	..	..	317
Engineering Law.....	175	1	1	..	..	317
Summer Essay.....	134	..	..	..	..	293
and one of:—						
(1) Electric Traction.....	121	..	2	..	..	315
(2) Hydraulic Machines.....	99	..	2	..	..	310
(3) Machine Design.....	243	..	2	..	..	324
(4) Applied Electro Chemistry.	70A	..	2	..	..	305
Total Time		16	19	6	6	



## V. MECHANICAL ENGINEERING.

Undergraduates entering the Third Year may elect one of three courses; that embracing Mechanics of Machines and advanced Thermodynamics, or Calculus and advanced Strength of Materials, or Accounting and Industrial Engineering.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(a) The construction or manufacturing side of mechanical engineering, including industrial or production engineering; (b) steam engineering; (c) gas engine and producer work; (d) power plant engineering; (e) heating and ventilation of buildings and factories; (f) aeronautics and aerodynamics.

Instruction is given during the Third and Fourth Years in mechanical engineering as applied to questions connected with power installation and prime movers. The earlier portion of this work is supplementary to the instruction given in thermodynamics, mechanics of machines and machine design, and leads up to the more advanced or technical subjects of power plant design, industrial plant design and works organization.

Students in the Department of Mechanical Engineering take work in electrical engineering during the Third Year.

Instruction in workshops practice is given in the Third and Fourth Years. This work is of a systematic nature, and is intended to prepare for, but by no means to replace, that practical experience of manufacturing operations on a commercial basis which every mechanical engineer must obtain for himself.

The course in thermodynamics deals more particularly with the theory of heat engines, and time is assigned for additional graphical and experimental work in connection with the subject.

Arrangements are made for occasional visits to power plants and manufactories of importance.

## FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 273 and 274), with additional Summer School for students entering Third Year. (See page 289.)



## THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
*Accounting (alt.).....	238	1	1	$\frac{2}{3}$	$\frac{2}{3}$	323
Economics.....	171	..	2	..	..	316
Elements of Elect. Eng. and Lab.....	111-112	2	2	1	1	313
Industrial Engineering.....	237	2	..	..	..	323
Machine Design.....	225	2	2	..	..	322
Mechanical Drawing.....	231	..	..	2	1	323
Mechanical Eng. and Lab.....	227, 228	3	3	1	1	322
Mechanics.....	86	2	..	..	..	307
*Mechanics of Machines (alt.)..	224	2	2	$\frac{1}{3}$	$\frac{1}{3}$	322
Shopwork.....	236	..	..	1	1	323
Strength of Mats. and Lab....	87, 88	2	2	..	1	307
Structural Engineering.....	90	..	1	..	1	308
Thermodynamics.....	229	2	2	..	..	323
†Summer School.....	233	..	..	..	..	323
**Calculus (alt.).....	201	2	..	..	..	321
Summer Reading or Essay....	133	..	..	..	..	292

\*Alternative with Mechanics of Machines (224); one or other of these subjects must be taken.

†See page 289.

Students wishing to take Industrial Engineering IV (253) must take Accounting (238).

\*\*Students taking Aero-dynamics option take in addition Calculus 201.

## FOURTH YEAR

Designing.....	241	..	..	1	1	324
Engineering Economics.....	172	2	..	..	..	317
Engineering Law.....	175	1	1	..	..	317
Experimental Eng.....	257	1	1	..	..	326
Heat. and Vent. of Buildings..	247	1	1	..	..	324
Hydraulics and Lab.....	97, 98	2	..	1	..	308
Hydraulic Mach.....	99	..	2	..	..	310
**Industrial Administration...	254	..	1	..	1	326
*Industrial Engineering.....	253	2	2	1	1	325
**Industrial Relations.....	258	2	..	..	..	326
Machine Design.....	242	2	2	..	..	324
Power Plant Design.....	244	1	1	1	1	324
*Mech. Eng. Lab.....	249	..	..	3	3	325
*Mech. Eng. Lab.....	249a	..	..	2	2	324
**Mech of Mach.....	240	2	2	$\frac{1}{3}$	$\frac{1}{3}$	325
Shopwork.....	252	..	..	1	1	325
*Thermodynamics.....	251	2	2	..	..	293
Summer Essay.....	134	..	..	..	..	309
***Strength of Materials.....	95	2	..	..	..	

\* Either courses (253) and (249a) or (251) and (249) must be taken.

\*\* Either courses (240) or (254) and (258) must be taken.

\*\*\* Students taking Calculus (201) take Strength of Materials (95).



## VI. METALLURGICAL ENGINEERING

The courses in Metallurgical Engineering are designed for students intending to enter metallurgical works, such as steel works, smelting or refining plants, foundries, rolling mills, etc., or the metallurgical inspection, testing or research departments of large engineering works.

The course of instruction provides: (a) a general scientific and engineering education; (b) more advanced work in inorganic, physical and electro-chemistry and chemical analysis, which subjects are essential for a metallurgist; (c) as much mechanical, electrical and hydraulic engineering as time will permit; (d) a course in the allied subjects of geology, ore deposits and mining; (e) a full course of instruction in the various branches of metallurgical engineering and the closely related subjects, mineralogy, ore-dressing and fire-assaying.

Between the Second and Third Years there is a four-weeks' Summer School in qualitative analysis in the Chemical Laboratory, beginning about the 1st of September.

In the Third Year instruction is given in economics, chemistry, physical chemistry, assaying, geology, mineralogy, mining, ore-dressing, metallurgy, and mechanical and structural engineering.

A Metallurgical Field School is held after the April examinations of the Third Year. In this school the students pay visits to a number of metallurgical plants under the guidance of the department and officials of the plants visited, and make a careful study of the design and operation of each.

Students are expected to obtain employment in some metallurgical works during the summer before entering the Fourth Year, and must have had experience in metallurgical works before graduation. See page 269 regarding engineering experience. Suitable employment can usually be obtained at the finish of the Field School.

In the Fourth Year instruction is given in chemistry, electro-chemistry, electrical engineering, engineering law, economics, hydraulics, metallurgy, electro-metallurgy, metallography and ore-dressing. Metallurgical designing and laboratory work form important parts of the course.

Laboratory accommodation is provided for graduate students who wish to do advanced work in some branch of metallurgy in preparation for the M.Sc. degree, and a Research Fellowship is available each year for some graduate student who shows marked ability for such work.

### FIRST AND SECOND YEARS

As in other Engineering Courses (see pp. 273 and 274). A Summer School in Chemistry must be taken before the beginning of the Third Year. (See page 289.)



## THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics .....	171	..	2	..	..	316
Fire Assaying and Lab.....	263, 264	..	1	..	2	327
Geology, General.....	141	3	3	2½	1	317
Gen. Elem. Metall. & Lab.....	261	2	..	..	1	327
Inorg. Quant. Anal. and Lab..	62	1	..	3	..	302
Mech. Eng and Lab.....	226, 228	2	2	1	1	322
Metall. Calculations.....	265	1	1	..	..	328
Mineralogy.....	142	2	2	..	..	318
Mineralogy, Determinative....	143	..	..	2	..	318
Mining Engineering.....	291	2	..	..	..	331
Ore Dressing.....	292, 295	2	2	..	..	331
Physical Chemistry.....	58	2	1	..	..	302
Strength of Mats. and Lab....	87, 88	2	2	..	1	307
Structural Engineering.....	90	..	1	..	1	308
†Summer School, Inorg. Qual.						
Anal. and Lab.....	54, 55	..	..	..	..	301
Summer Reading or Essay.....	133	..	..	..	..	292

†See page 289.

## FOURTH YEAR

Applied Electro-Chemistry....	70A	2	..	..	..	305
Elem. Elec. Eng. and Lab.....	111, 112	2	2	1	1	313
Electro-Metal. and Lab.....	275	..	2	..	1	329
Engineering Economics.....	172	2	..	..	..	317
Engineering Law.....	175	1	1	..	..	317
General Metallurgy.....	271	2	2	..	..	328
Hydraulics and Lab.....	100	1	..	2½	..	310
Industrial Chemistry, Inorg...	68	2	..	..	..	304
Inorganic Lab.....	67A	1	..	3	..	304
Metallurgy, Advanced.....	272	2	2	..	..	329
Metallurgical Lab. and Thesis..	274	..	..	..	3	329
Metallurgy Colloquium.....	277	..	1	..	..	330
Metal. Calcs. and Design.....	278	..	..	..	2	330
Metallurgical Analysis.....	279	..	1	..	1	330
Metallography and Lab.....	280, 281	1	..	1	..	330
Ore-Dressing and Lab.....	300, 305	2	1	1	..	332
*Metallurgical Field School....	267	..	..	..	..	328
Summer Essay.....	134	..	..	..	..	293

\*Metallurgical Field School (267) is taken at the end of the Third Year. See page 283.  
For Summer Schools, see pages 289 and 328.



## VII. MINING ENGINEERING

The work of the Third Year is largely in general engineering subjects such as applied mechanics, electrical engineering, mechanical engineering, geology, mineralogy and surveying, but courses of special interest to Mining Engineers are introduced in ore-dressing and elementary mining and metallurgy.

The Fourth Year, on the other hand, is very largely given up to technical work in mining, ore-dressing, economic geology and metallurgy, and includes the equivalent of nearly three full days per week in the laboratories and drafting room of the Mining Department. In the second term each student is required to prepare a thesis giving the result of an experimental investigation.

A Field School in mining, ore-dressing and geology is held between the Third and Fourth Years, the work ordinarily beginning immediately after the close of the April examinations. Under direction of one or more members of the staff, students are taken on a trip to some important mining district where mines and plants are critically studied. As far as conditions permit, Second Year students who intend to enter the mining course will be given the benefit of participation in this summer school.

Facilities are also afforded to graduate students who wish to do advanced work in mining or ore-dressing, and the Department possesses three endowed research fellowships open to graduates who show exceptional ability. (See page 130.)

## FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 273 and 274), with additional Summer School for students entering Third Year. (See page 289.)



## THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics .....	171	..	2	..	..	316
*Fire Assaying and Lab. ....	263, 264	..	1	..	2	327
Geology, General. ....	141	3	3	$\frac{2}{3}$	$\frac{1}{3}$	317
*Inorg. Qual. Anal. and Lab. ....	59, 60	1	..	2	..	302
Mech. Eng. and Lab. ....	226, 228	2	2	1	1	322
Gen. Element. Metall. ....	262	2	..	..	..	327
Mineralogy. ....	142	2	2	..	..	318
Mineralogy, Determinative. ....	143	..	..	2	..	318
Mining Engineering. ....	291	2	..	..	..	331
Ore Dressing. ....	292, 295	2	2	..	..	331
Strength of Mats. and Lab. ....	87, 88	2	2	..	1	307
Structural Engineering. ....	90	..	1	..	1	308
Surveying. ....	352	1	1	..	..	338
†Surveying Field Work. ....	354	..	..	..	..	339
Elect. Engineering and Lab. ....	111, 112	2	2	1	1	313
Summer Reading or Essay. ....	133	..	..	..	..	292

\*The lecture hour assigned to these subjects is taken from the afternoon laboratory periods.

† See page 289.

## FOURTH YEAR.

Mine Design. ....	298	..	..	..	2	332
Engineering Economics. ....	172	2	..	..	..	317
Engineering Law. ....	175	1	1	..	..	317
Geology of Canada. ....	149	1	..	..	..	319
Hydraulics. ....	100	1	..	$\frac{1}{2}$	..	310
†Inorg. Quantitative Anal. ....	71	1	..	4	..	305
Metallurgy, General. ....	271, 284	2	2	..	1	328
Metallurgical Cal. ....	283	1	1	..	..	330
Mining Engineering. ....	297	3	3	..	..	332
Mining Colloquium. ....	301	..	1	..	..	332
Practical and Field Geology. ....	147	1	..	1	..	319
Ore Deposits. ....	148	..	4	..	..	319
Ore-Dressing. ....	300	2	2	..	..	332
Ore-Dress., Lab. and Thesis. ....	306	..	..	..	3	333
Petrography and Lab. ....	146	1	..	1	1	318
Mining Field School. ....	294	..	..	..	..	334
Mine Mapping. ....	293	..	..	$\frac{1}{2}$	..	332
Summer Essay. ....	134	..	..	..	..	293

†The lecture hour assigned to this subject is taken from one of the afternoon laboratory periods.

NOTE.—Surveying Field work, between the Second and Third Years. See pages 289 and 334.

Mining Field School at end of Third Year. See page 334.



## COURSE IN ENGINEERING PHYSICS

There is an increasing demand for men with an advanced knowledge of mathematics and physics who are capable of conducting investigations of a research character. With a suitable training, openings in this field of work may be found in research laboratories of the Government and of electric corporations, in consulting work, and in University appointments. A course in Engineering Physics leading to the Degree of B.Sc. in Arts and Science has therefore been arranged, and is open to capable students in Arts and Science or Engineering. A student who has completed his Second Year in the Faculty of Engineering and has received first or second class rank in mathematics and physics may join the course in Engineering Physics, as outlined below, subject to the approval of the Heads of the Departments of Electrical Engineering and Physics.

**Third Year.**—Mathematics 6, 7; Physics 5A, 5B, 6B or 8B\*; Electrical Engineering 113, 114.

During the summer at the end of the Second Year, students are advised to spend three months at an approved shop, radio or research station.

**Fourth Year.**—Mathematics 10 or 11; Physics 6A, 7A, 7B, 8A and 8B or 6B\*, 9, 10; Summer Thesis or Shop Work.

*\* Physics 6B and 8B are given in alternate years.*

The student may now receive the degree of B.Sc., with honours in Mathematics and Physics. In the Fifth Year the student should take selected subjects from the Fourth Year course in Electrical Engineering, as shown on page 46 and also Physics G and H and one of I, J, K, M, P, as shown on pages 529-533, and proceed with research work and a thesis with a view to an M.Sc. degree.

The course therefore requires five years and may require six. During the last year (the sixth), opportunity may sometimes be afforded to act as demonstrator with a salary.

Students who have passed the courses of the first two years of the Faculty of Engineering as stated above and have obtained the degree of B.Sc. in Engineering Physics as outlined, may proceed in a fifth year to the degree of B.Eng. in Electrical Engineering in the Faculty of Engineering, provided that they have completed the following courses in that Faculty:—Communication Engineering (125), [or, as alternative, Electric Light and Power Distribution (120) and Applications of Electricity (123)], together with Nos. (87), (88), (97), (98), (117), (118), (122), (223), (225), (226).



These courses may be spread over more than one session, and application to proceed to the degree in the Faculty of Engineering should be made to the Dean not later than the end of the Third Year course in Engineering Physics so that suitable arrangements may be made.

The student may now receive the degree of B.Sc. with honours in Mathematics and Physics in the Fifth Year the student should select subjects from the Fourth Year course in Electrical Engineering and Physics C and also Physics G and H and also select a thesis with a view to an M.Sc. degree.

Fourth Year—Mathematics C & D; Physics A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

Fourth Year—Mathematics C & D; Physics A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

Fourth Year—Mathematics C & D; Physics A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.

The student may now receive the degree of B.Sc. with honours in Mathematics and Physics in the Fifth Year the student should select subjects from the Fourth Year course in Electrical Engineering and Physics C and also Physics G and H and also select a thesis with a view to an M.Sc. degree.

The student may now receive the degree of B.Sc. with honours in Mathematics and Physics in the Fifth Year the student should select subjects from the Fourth Year course in Electrical Engineering and Physics C and also Physics G and H and also select a thesis with a view to an M.Sc. degree.

Students who have passed the course of the first two years of the Faculty of Engineering as stated above and have obtained the degree of B.Sc. in Engineering Physics as outlined may proceed to a third year in the degree of B.Sc. in Electrical Engineering in the Faculty of Engineering provided they have completed the following courses in that Faculty:—Communication Engineering (125), for an alternative to Electric Light and Power Distribution (120) and Applications of Electricity (121), together with Not. (67), (68), (69), (70), (71), (72), (73), (74), (75), (76), (77), (78), (79), (80), (81), (82), (83), (84), (85), (86), (87), (88), (89), (90), (91), (92), (93), (94), (95), (96), (97), (98), (99), (100).



## SUMMER SCHOOLS

Undergraduates are required to attend Summer Schools as specified below. These are usually held immediately after the regular April sessional examinations, and the work is set forth in detail under the subject numbers referred to.

Except as noted, classes are expected to begin on or about April 30th and close about May 26th.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture.....	347	338	†50	299	†50	299
Chemical Engineering.....	347	338	*54, 55	301	...	...
Civil Engineering.....	347	338	354	339	361	339
Elect. Engineering.....	347	338	...	...	...	...
Mechanical Engineering....	347	338	*233	323	...	...
Metallurgical Engineering...	347	338	*54, 55	301	267	328
Mining Engineering.....	347	338	354	339	294	334

†This school will be held in September, 1931, and will last a little over two weeks. Particulars as to dates, etc., must be obtained from the Head of the Department.

\*These Schools commence on Sept. 1st, extend over a period of four weeks, and are held with the Special Summer Schools. See pars. (b) and (c) below.

## NOTE.—SPECIAL SUMMER SCHOOLS.

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that, except as noted in the table above, they apply only to students who have not previously been in attendance in the Faculty of Engineering.

(a) Students entering the Second Year are required to attend a special Summer School in Surveying which extends from September 14th to 28th, inclusive, preceding the work of the Session. Additional work may be required in the following year, if necessary to cover the course.

(b) Students entering the Third Year of the courses in Chemical Engineering and Metallurgical Engineering are required to attend a Special Summer School in Chemistry which extends over a period of four weeks commencing Sept. 1st.

(c) Students entering the Third Year of the course in Mechanical Engineering will be required to attend a Summer School in Mechanical Drawing and Machine Shop-work extending over a period of four weeks, commencing Sept. 1st.

(d) Students entering the Third Year in the courses in Civil and Mining Engineering and the Fourth Year in Civil Engineering are required to attend a Special Summer School in Surveying from September 14th to 28th, inclusive, and in these courses further work in Surveying, to be specified by the Head of the Department, is required for a portion of the month of May following.

(e) Students entering the Third Year in the course in Electrical Engineering are required to submit evidence satisfactory to the Head of the Department, that they have been employed for a time at least equivalent to one month of steady employment, in a first-class electrical shop during the vacation preceding their entrance into the Third Year.

(f) Students entering the Third Year or any subsequent year in the course in Architecture must submit evidence satisfactory to the Head of the Department that they have done work fully equivalent to that of the regular scheduled Summer Schools.

(g) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses, and should by correspondence in the preceding spring secure the approval of the Head of the Department concerned, of the work which they propose to offer in place of the regular summer work.



### SUMMER WORK, SUMMER ESSAYS AND SUMMER READING

Students in Engineering are required to submit to the Faculty evidence of having had at least six months of experience in practical engineering work before receiving their degrees. Evidence of such employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer and handed in at the office not later than 1 p.m. October 10th, 1931.

A similar regulation applies to students in Architecture, who must have had at least eight months of practical experience before receiving their degrees. This experience must include work in an architect's office.

The requirements regarding summer essays, summer reading, or other prescribed work, are given below.

#### GENERAL REQUIREMENTS

Essays are regarded by the Faculty as a very important part of the curriculum and a high standard is exacted. They are judged on their subject matter, literary style and the evidence which they show of thoughtful preparation.

The most acceptable subject for an essay is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific or industrial work with which he is familiar will be accepted. Students who secure summer engagements in engineering work should take advantage of every opportunity to gather material suitable for an essay.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written approval of the Head of his Department. Information obtained from books and other sources may, however, be used or even quoted verbatim, provided full acknowledgment is made and all quotations enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full acknowledgment is made.

The student should be particularly careful to make acknowledgment of information or drawings regarding matters which have not come within his personal experience, by means of a letter attached to the essay.

Essays should normally be from 2,000 to 5,000 words in length. They should be illustrated by drawings, sketches, and, when desirable, by photographs, specimens, etc., and must be typewritten on paper of substantial quality and 8½ x 11 inches in size.



All essays become the property of the department concerned and are filed for reference. Students are, however, permitted to submit duplicate copies of their essays to the Engineering Institute of Canada or to the Canadian Institute of Mining and Metallurgy, in competition for students' prizes offered by these Institutes.

All summer essays must be handed in at the Dean's Office not later than 1 p.m., October 10th, 1931.

Examinations in Summer Reading will be held on or about the opening day of the session. The number of marks assigned to the reading course and to the essay is the same.

#### STUDENTS IN ARCHITECTURE

During each summer vacation all students are required either to work for five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

In addition, students entering the various years are required to fulfil the following requirements:—

##### Second Year

Read and pass an examination on "Ancient Times"—J. H. Breasted (Ginn and Co., New York).

##### Third and Fourth Years

Read and pass an examination on the following books, or submit an essay on a subject approved by the Head of the Department:—"A History of Everyday Things in England," Part II—Quennell (B. T. Batsford, London); "The Autobiography of Benvenuto Cellini" (Everyman's Library, Dent, London).

##### Fifth Year

Read and pass an examination on the following books, or submit an essay on a subject approved by the Head of the Department:—

"Seven Lamps of Architecture," Ruskin (Everyman's Library, No. 207); "William Morris—His Work and Influence," A. Clutton Brock, No. 89, Home University Series (Williams & Norgate, London).

#### STUDENTS IN ENGINEERING

##### Second Year

132. Students entering the Second Year must either read and pass an examination on not less than four of the following books, or submit an essay on engineering work in which they have been engaged:—



Macaulay—Essays on Hampden, Walpole, Pitt, Chatham and Hastings.

No. 225, Everyman's Library (55c).

Strachey—"Eminent Victorians."

Chatto & Windus (\$2.25).

Farrand—"The Development of the United States."

Houghton Mifflin Company (\$2.00).

Parkman—"LaSalle and the Discovery of the Great West."

Little, Brown & Co. (1 Vol. \$2.00).

Kipling—"Captains Courageous."

Doubleday, Page & Co. (\$2.00).

George Eliot—"The Mill on the Floss."

No. 325, Everyman's Library (55c).

Bennett—"Old Wives' Tales."

Hodder & Stoughton, or Doran (\$2.00).

Conrad—"Typhoon," Heinemann (60c).

The essay, which should be approximately 2,000 words in length, must be illustrated and conform to the requirements for essays stated above.

### Third Year

133. Students entering the Third Year must either read and pass an examination on one of the following books, or submit an essay preferably on engineering work in which they have been engaged:—"Economic Development of Modern Europe"—Ogg (\$3.50, Macmillan) or "The Nature of the World and of Man," H. H. Newman, Ed.,—chapters 1-7 inclusive and 12-14 inclusive (\$5.00, Macmillan).

Essays must conform to the requirements stated above except that they may be somewhat shorter, but not less than 2,000 words in length.

Students in Chemical, Electrical or Mechanical Engineering who elect to write an essay, but are not engaged during the summer in engineering, scientific or industrial work that would be a suitable subject for an essay, may write on one of the following subjects:—

*Chemical Engineering students.*—(1) The Paint Industry; (2) The Solvay Process for Soda Manufacturing; (3) Manufacture of Illuminating Gas.

*Electrical Engineering students.*—The Application of Electric Power to Industrial Establishments.

*Mechanical Engineering students.*—(1) Powdered Fuel for Power Production; (2) Pulp and Paper Manufacture; (3) Shop Management.



Students in Mining Engineering or Metallurgical Engineering who are unable to write on engineering work of which they have personal knowledge, must take the summer reading.

#### Fourth Year

134. Students entering the Fourth Year are required to submit an essay, preferably on engineering work in which they have been engaged. Students in Chemical, Electrical or Mechanical Engineering who are not engaged in work affording material suitable for an essay, may write on one of the following subjects:—

*Chemical Engineering students*—(1) Hardening of Fats; (2) The Rare Earths; (3) Coal Tar Distillation; (4) Electro-Chemical Industries.

*Electrical Engineering students*—(1) Generation of Electric Power; (2) Long-distance Power Transmission; (3) Distribution of Electric Power; (4) Electrification of Railways.

*Mechanical Engineering students*—(1) Power Costs; (2) Central Station Heating; (3) Methods of Increasing Production in Manufacturing; (4) Exhaust Steam Turbines Using Steam at Pressures below Atmospheric.

Essays must conform in all respects to the requirements stated on page 290.

Examinations in Summer Reading will be held on or about the opening day of the session. The number of marks assigned to the reading course and to the essay is the same.



## SUBJECTS OF INSTRUCTION

The following courses are subject to such modification during the year as the Faculty may deem advisable.

### SCHOOL OF ARCHITECTURE

PROFESSORS:—{ RAMSAY TRAQUAIR (in charge of Department).  
PERCY E. NOBBS (in charge of Design).

ASSISTANT PROFESSOR:—FRANK P. CHAMBERS.

SPECIAL INSTRUCTOR:—E. DYONNET.

DEMONSTRATORS:—{ GORDON A. NEILSON.  
P. ROY WILSON.

SPECIAL LECTURERS:—{ LESSLIE R. THOMSON.  
P. J. TURNER.

### A.—Design

The course in Design is divided into four classes (A, B, C and D), intended to be taken in the Second, Third, Fourth and Fifth Years respectively. Advanced or backward students may be allotted to design classes to suit their individual requirements, irrespective of their standing in other subjects, but good standing in Class D must be obtained prior to receiving the degree.

1. CLASS A. Simple problems in composition of a monumental nature, not involving difficulties of plan.
2. CLASS B. The design of domestic and small public buildings.
3. CLASS C. The design of public buildings.
4. CLASS D. Problems involving the plan, structure and lay-out of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.—Professor Nobbs.

### B.—Aesthetic

The theoretical courses are intended to develop a sense of critical judgment in the student, emphasizing the fundamental principles of composition and design.



5. THE ELEMENTS OF ARCHITECTURE (24 lectures).

The five classic orders, pedestals, pediments, intercolumniation and superposition of orders, arches, vaults, domes, roofs, openings, etc.—Professor Chambers.

6. HISTORY OF ART (24 lectures).

A course in the history of painting and sculpture with special reference to the relation of these arts to architecture.—Professor Chambers.

7. THEORY OF DESIGN (24 lectures).

(a) *Principles of Aesthetic*:—The history of æsthetic enquiry, perception, emotion, pleasure, pain and expression; the art impulse; beauty defined; the work of art; subject, emotional content and medium; the criteria.

(b) *Application of Aesthetic*:—Pure design; the function of ornament, "motif," the material treatment, the placing and classifications of ornament; the evolution of functional forms, analysis of conventional forms; the use of scale and proportion; corrections and refinements.

Students will read selected passages from the works of Santayana, Yrjö Hirn, Croce, Marshall, Geoffrey Scott, Baldwin Brown and Blomfield, etc.—Professor Nobbs.

8. THEORY OF PLANNING (24 lectures).

(a) *Elements of Planning*:—Dimensions, arrangements, scales, aspect, prospect, light structural bay, unit planning, axial planning.

(b) *Domestic Planning*:—Stables, cottages, housing, residences; country houses and gardens; apartment houses.

(c) *Public Buildings*:—Churches, halls, theatres, schools, libraries, hospitals, baths, fire stations, municipal buildings, etc.

*Note*:—The examples studied are selected from current architecture.—Professor Nobbs.

Courses 7 and 8 will be taken in alternate years until further notice.

9, 10, 11 and 12.—ORNAMENT AND DECORATION (48 lectures and 48 drafting periods extending through two years).

9. DECORATIVE HERALDRY. The place of heraldry in the arts; the laws of heraldry, heraldic art of different periods; modern practice and tendencies; symbolism and significant ornament.—Professor Traquair.

*Text-book*:—Decorative Heraldry, Eve. *Reference*:—The Art of Heraldry, Fox Davies.

10. ORNAMENT IN FORM. The design of plaster work, terra cotta, stone carving, architectural sculpture, wood carving and furniture is dealt with as the evolution of form in distinctive materials, influenced incidentally by the prevailing taste of different periods.—Prof. Traquair.



*Reference Books:*—Plastering, Plain and Decorative, Millar; The Art of the Plaster, Bankart; Mediæval Figure Sculpture in England, Prior.

11. METAL WORK. The design of wrought and cast iron, bronze, copper, brass, pewter, silver, gold and jewellery is dealt with historically and as the result of the methods of workmanship.—Professor Traquair.

*Reference Books:*—English and Scottish Wrought Iron Work, Murphy; Ironwork, Starkie Gardner; Leadwork, Lethaby.

12. COLOR DECORATION. Stained glass, mosaic of various kinds, inlays, the use of colored materials in external and internal design, mural decoration, and the analysis and construction of pattern.—Professor Traquair.

*Reference Books:*—Vitreaux, Merson; Windows, Day.

Courses 9 and 10, and 11 and 12 will be taken in alternate years.

### C.—History

#### 14. ANCIENT AND CLASSICAL ARCHITECTURE (48 lectures).

The architecture of ancient Egypt and Mesopotamia; the Minoan civilization; architecture of the Dorian and Ionian Greeks, with special attention to the refinement of form in Hellenic art; the architecture of Rome and Byzantium to the fall of the Byzantine Empire.—Professor Traquair.

*Text-books:*—Banister Fletcher's History of Architecture; Anderson and Spiers' Architecture of Ancient Greece; Anderson and Spiers' Architecture of Ancient Rome.

#### 15. MEDIÆVAL ARCHITECTURE (48 lectures).

The rise of the Romanesque schools, from the decline of the Western Roman Empire to the XI century; the evolution of ecclesiastical architecture in France and England to 1500 A.D.; the Gothic schools of Europe and the evolution of military and civil architecture.—Professor Traquair.

*Text-book:*—Power's Mediæval Architecture.

#### 16. RENAISSANCE ARCHITECTURE (48 lectures).

The beginning of the Renaissance in Italy and its influence on architecture from 1400 A.D. to 1600 A.D.; the Renaissance in France from Francis I. to the Revolution; the earlier and later phases of the Renaissance in England and English architecture during the XVIII century.—Professor Traquair.

*Text-books:*—Anderson's Italian Renaissance Architecture; W. H. Ward's French Renaissance Architecture; R. Blomfield's Short History of Renaissance Architecture in England.



17. MODERN ARCHITECTURE (48 lectures).

The end of the Renaissance and the classic revival in England; scholarly architecture; the "Gothic Revival"; the influence of Pugin, Ruskin and Morris; the "Arts and Crafts" movement; the eclectic schools; Shaw and the free classicists; the progress of art in Europe during the XIX century; the classic schools and "official" architecture; the neo-grec movement in France; the national revivals, the secession and art nouveau; the colonial architecture of North America, Spanish, French and English; the colonial architecture of Canada; the modern schools and the present position.—Professor Traquair.

D.—Science

MATHEMATICS—Geometry and Trigonometry, first term; Algebra, second term; to be taken in First Year Arts and Science. Subject No. 1: For full particulars, see page 203 Mechanics (194) is taken in Engineering. (See page 320.)

PHYSICS AND LABORATORY (48 lectures and 24 laboratory periods). Arts 1.

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing the laws of energy, heat, light, electricity and sound.—Professor Keys.

346, 347 and 348. SURVEYING. (Full course; 4 weeks field school, 48 lectures and 24 draughting periods, see page 338.)

22 and 23. HYGIENE OF BUILDINGS. (24 lectures in first term, 12 lectures and working out of one graphical problem in second term.)

22. Light and air, water, sanitary plumbing, sewage disposal. First term.—Dr. Starkey.

23. The heating and ventilation of buildings. Second term.—Professor McKergow.

E.—Construction

23a. A short course in elementary building construction and drawing is given in the First Year (24 periods with occasional lectures).—Mr. Turner.

The Second Year work covers the ordinary building trades and detailing where calculations of a complicated kind are not involved. The Third Year work deals with structural problems involving calculation, while in the Fourth Year problems in structural design are worked out.



24 and 25. BUILDING CONSTRUCTION AND BUILDING DETAIL (24 lectures, 48 draughting periods).

Building materials, brickwork, masonry, carpentry, roofing, etc.; joinery of doors, windows, etc., and the finishing trades, such as plastering, painting and plumbing; underpinning, shoring, centering and forms. General working drawings are prepared, and building works in progress are visited.—Mr. Turner.

26 and 27. ARCHITECTURAL ENGINEERING I AND ARCHITECTURAL ENGINEERING (Draughting) I (24 lectures and 24 draughting periods). Graphical methods of calculating and the strength of materials employed in construction.—Professor Thomson.

28 and 29.—ARCHITECTURAL ENGINEERING II A AND ARCHITECTURAL ENGINEERING (Draughting) II A (24 lectures and 24 draughting periods).

Theory and practice of reinforced concrete; foundations and retaining walls.—Professor Thomson.

30 and 31.—ARCHITECTURAL ENGINEERING II B AND ARCHITECTURAL ENGINEERING (Draughting) II B (24 lectures and 24 draughting periods).

Rivets and riveting, symmetrical and eccentric connections; the design of structural steel, with examples of floors, columns, beams, office buildings and plate girders; the theory of arch action with especial reference to examples in masonry.—Professor Thomson.

Architectural Engineering II A, with Architectural Engineering II B, with the draughting periods allotted to each, will be taken until further notice by the Third and Fourth Years together, and are given in alternate years.

34. A course on Building Materials is given in the Third Year (24 lectures).—Mr. Turner.

#### F.—Architectural Practice

32. PROFESSIONAL PRACTICE (24 lectures with exercises).

Structure of specifications and general clauses; specifications for all trades; conditions of contract; agreement; building by-laws; estimates; reports; professional ethics.—Mr. Turner.

175. ENGINEERING LAW (24 lectures).

Instruction is provided with the Engineering Fourth Year classes. (See page 317.)



**G.—Drawing**

33. ARCHITECTURAL DRAWING I (100 periods of three and four hours). Drawings of the Classic orders, showing their application to other elements in architectural design, are prepared from the large models in the museum and from documents.—Professor Chambers.

35, 36, 37. The buildings studied during the summer sketching class are drawn out. These periods are in direct connection with the survey of Canadian Architecture at present undertaken by the School.—Professor Traquair.

38, 39, 40, 41. FREEHAND DRAWING (100 periods).

Drawing in pencil or charcoal from casts of architectural ornament, architectural fragments and parts of the figure.—Mr. Dyonnet.

18. ARCHITECTURAL GEOMETRY I (24 lectures and 24 periods).

Descriptive geometry; isometric and axometric projection; shades and shadows; developed surfaces and intersection of solids.—Professor Chambers.

19. ARCHITECTURAL GEOMETRY II (24 lectures and 24 periods).

The practical application of descriptive geometry to masonry and joinery; perspective; the rendering of perspective drawings.—Professor Chambers.

42 and 43. MODELLING (one period a week of two hours, extended over the Fourth and Fifth Years).

The student first studies form directly from nature, and later on conventionalizes the forms with which he has become familiar for decorative purposes. The Architectural museum affords many examples from different periods of the adaptation and abstraction of natural motifs in ornament. They are used to show the spirit in which to work out ornament, and are not copied directly. Models of designs on which the students are engaged are also prepared, and casting is taught.—Mr. Dyonnet.

46, 47, 48, 49. An essay on an historical or theoretical subject is required each year from all students excepting those of the First Year. This essay is to be prepared during the session.

50. SUMMER WORK.

A, B & C. During the vacation following the close of the First, Second, Third and Fourth Years, the students in Architecture are required to read and be prepared to pass an examination on a selected theoretical, æsthetical, or historical architectural work. Every student must, before he receives his degree, have had at least eight months' experience in an architect's or contractor's office satisfactory to the Faculty. The regulations of the Royal Institute of British Architects



require that a candidate for the special examination shall have had at least twelve months' experience in an architect's office and graduates in Architecture will not be admitted to this examination until they have fulfilled the requirement.

A summer school in surveying is taken in the four weeks following the final examinations of the First Year.

D. & E. A summer school in sketching and measuring is attended by all students between the Second and Third and between the Third and Fourth Years, in the latter part of September, for the study of buildings in Canada and in the United States.

For summer reading, see page 291.

#### DEPARTMENT OF CHEMISTRY

DIRECTOR AND PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.

PROFESSOR OF PHYSICAL CHEMISTRY:—O. MAASS.

PROFESSOR OF ORGANIC CHEMISTRY:—

PROFESSOR OF INDUSTRIAL AND CELLULOSE CHEMISTRY:—HAROLD HIBBERT.

PROFESSOR:—NEVIL NORTON EVANS.

ASSOCIATE PROFESSOR:—W. H. HATCHER.

ASSISTANT PROFESSORS:—  
 { C. F. H. ALLEN.  
 { E. W. R. STEACIE.  
 { J. H. MENNIE.

LECTURER:—W. H. BARNES.

{ R. H. BALL.  
 { H. W. J. CRESSMAN.  
 { A. D. GRIEVE.  
 { R. K. HOLCOMB.  
 { G. R. LUSBY.  
 { D. W. MACLAUCHLAN.

DEMONSTRATORS:—

1930-31

{ E. E. MASSEY.  
 { L. P. MOORE.  
 { M. E. PLATT.  
 { E. C. POWELL.  
 { A. F. PRICE.  
 { E. W. SPANAGEL.  
 { J. S. TAPP.

GRADUATE ASSISTANTS:—

1930-31

{ R. BOYER.  
 { F. HOWLAND.  
 { R. MORTON.  
 { H. A. REEVE.  
 { F. B. WELLS.  
 { C. V. WILSON.

LECTURE ASSISTANT:—A. E. CANTON.



**First Year Lectures.**

51. GENERAL CHEMISTRY. The course includes the history, occurrence, methods of preparation and the properties of the non-metallic elements and their important compounds, with their domestic and industrial applications; classification; general laws and principles and the fundamental theories of the science; with a brief discussion of the scientific method. Two lectures a week for all Engineering students.—Professor Evans.

*Text-book:*—McPherson & Henderson, Introductory College Course.

**First Year Laboratory.**

52. GENERAL CHEMISTRY LABORATORY. Practical work designed to accompany and illustrate the lectures of Subject 51. The course includes the construction and use of ordinary apparatus, the preparation and study of important elements and compounds, qualitative analysis, and simple quantitative determinations, both gravimetric and volumetric, including combining weights, standardization of solutions, hardness of water, etc. One period a week for all students of Engineering.—Dr. Barnes and Demonstrators.

**Second Year Lectures.**

53. GENERAL CHEMISTRY. The course is a continuation of that given in the First Year (51). It is based on the Periodic Classification of the elements and includes a study of the more important metals and their compounds, brief outlines of metallurgical processes and other industrial chemical processes, chemical equilibrium, etc. Two hours a week for all students in Engineering.—Professor Evans.

*Text-book:*—McPherson & Henderson, Introductory College Course.

**Third Year Lectures.**

54. INORGANIC QUALITATIVE ANALYSIS. A course dealing with the principles of analytical chemistry—nature of solutions, precipitations, etc., explanatory of the work done in the laboratory (course 55). Ten lectures a week for the first three weeks of the Summer School. (See page 56.)—Professor Evans.

*Text-book:*—N. N. Evans, Notes on the Theory of Qualitative Analysis. *Reference:*—Stieglitz, Qualitative Chemical Analysis.

56. ORGANIC CHEMISTRY. (Arts and Science 2.) A course in general elementary organic chemistry. Three lectures a week during the first term and two during the second term.—Professor Hatcher.

*Text-book:*—Clarke, Introduction to the Study of Organic Chemistry. *Reference:*—Taylor, Reactions and Symbols of Carbon Compounds.



58. PHYSICAL CHEMISTRY. (Arts and Science 4.) An introductory course following the development of chemical theory.

Two lectures a week during the first term and one per week in second term.—Professor Steacie.

*Text-book*:—Maass & Steacie, Introduction to the Principles of Physical Chemistry.

59. INORGANIC QUALITATIVE ANALYSIS. A course explanatory of the work done in the laboratory. One lecture a week in the first term for Mining Engineers only.—Professor Evans.

*Text-book*:—N. N. Evans, Notes on the Theory of Qualitative Analysis.

61. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. A course on the general principles involved in quantitative analysis. One lecture a week during the first term and three laboratory periods a week throughout the year for Chemical Engineering students.—Professor Mennie and Demonstrators.

62. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. A course on the general principles involved in quantitative analysis. One lecture and three laboratory periods during the first term for Metallurgical Engineering students.—Professor Mennie and Demonstrators.

### Third Year Laboratory.

#### 55. INORGANIC QUALITATIVE ANALYSIS LABORATORY.

A course of laboratory work, including preliminary experiments on known substances, the examination of unknown mixtures for base and acid radicals, methods of bringing substances into solution, and a study of the chemical reactions involved in these processes. Four weeks in the Summer School for students of the Chemical and Metallurgical Engineering courses. (See page 289.) Professor Evans and Demonstrators.

*Text-book*:—W. A. Noyes, Qualitative Analysis.

57. ORGANIC CHEMISTRY LABORATORY. (Arts and Science 2.) A course on the preparation and properties of the commoner organic compounds. Two periods a week, in the second term.—Professor Hatcher and Demonstrators.

60. INORGANIC QUALITATIVE ANALYSIS. A course adapted to the requirements of Mining Engineers. Two periods a week in the first term.—Professor Evans and Demonstrators.

*Text-book*:—W. A. Noyes, Qualitative Analysis.



#### Fourth Year Lectures and Laboratory.

\*65. ADVANCED ORGANIC CHEMISTRY AND LABORATORY. (Arts and Science 5.)

The lectures are devoted to a description of representative classes of organic compounds, a survey of the methods available for establishing the structure and configuration of organic molecules, and a discussion of the nature of problems in organic chemistry and the manner in which they are solved. In the laboratory the methods of organic synthesis and organic analysis are studied. In special cases the laboratory work may be varied to suit the needs of the student. Students who do extremely well in the laboratory are allowed to undertake simple problems in research during the second term.—Professor Allen and Demonstrators.

65A. ORGANIC QUALITATIVE ANALYSIS. (Arts and Science 5A.)

This course deals with the detection, separation and identification of organic compounds whether alone or in mixtures. One laboratory period a week throughout the year.—Professor Allen and Demonstrator.

*Text-book:*—Kamm, Qualitative Organic Analysis.

\*66. PHYSICAL CHEMISTRY. (Arts and Science 7.) Three lectures a week on general physical chemistry, including the kinetic theory, thermo chemistry, electron theory in chemistry, chemistry of radioactive substances, etc.

Students will be required to work problems dealing with the subject matter of the lectures.—Professor Maass.

*Text-book:*—Nernst, Theoretical Chemistry.

\*66A. PHYSICAL AND COLLOID CHEMISTRY LABORATORY. (Arts and Science 7A.) Two laboratory periods a week throughout the year are devoted to typical measurements in physical and colloid chemistry.—Professors Maass and Steacie and Demonstrators.

*Text-book:*—Findlay's Practical Physical Chemistry.

67. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. (Arts and Science 8 (1).) A lecture and laboratory course dealing with the special methods of analysis of iron and steel, alloys and water; gas analysis; and also electrometric titration methods and other recent methods in volumetric analysis. One lecture and three laboratory periods a week in the first term; one lecture and four laboratory periods a week in the second term; for Chemical Engineering students.

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\* Courses marked with a star are open to graduates as well as undergraduates.



*For Reference:*—Lord and Demorest, Metallurgical Analysis; Treadwell-Hall, Quantitative Analysis; Blair, Chemical Analysis of Iron; Ibbotson, Analysis of Steel Works Materials; Kolthoff-Furman, Volumetric Analysis, Potentiometric Titrations.—Professor Mennie and Demonstrators.

67A. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. The lectures deal with the special methods of analysis of iron and steel, alloys and water. The laboratory work is a continuation of course 62. One lecture and three laboratory periods per week in the first term; for Metallurgical Engineering students.—Professor Mennie and Demonstrators.

*For Reference:*—As for course 67.

68. INDUSTRIAL CHEMISTRY, INORGANIC. (Arts and Science 13.) A course, both theoretical and descriptive, on the more important inorganic chemical industries. Two lectures per week in the first term. Special lectures are given in this course by chemical engineers from outside the University.—Professor Hibbert.

69. INDUSTRIAL CHEMISTRY, ORGANIC. (Arts and Science 14.) This course is given during the second half of the session, and includes the chemistry of paper and pulp, sugar, starch and glucose, soap and fats, distillation of wood and the purification of the products, etc. Two lectures per week in the second term. This course consists of special lectures by chemical engineers from the city and district who are experts in one or other of the industries, together with members of the staff.—Professor Hibbert.

70. ELECTRO-CHEMISTRY. (Arts and Science 11.) The lectures deal with the laws of conduction and electrolysis; the theory of ionization; the conductance of strong electrolytes; chemical electro-motive force; polarization; concentration cells; oxidation-reduction potential. The application of the foregoing principles is discussed in connection with the winning and refining of metals, the construction of primary and secondary cells, and the problems of electro-plating and corrosion. A brief account is given of the electrochemistry of gases.

Two lectures a week in the first term for Chemical Engineering students.—Professor Mennie.

*For Reference:*—Creighton, Electrochemistry; Allmand, Applied Electrochemistry.

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\* Courses marked with a star are open to graduates as well as undergraduates.



70A. APPLIED ELECTRO-CHEMISTRY. The laws of conduction and electrolysis, the theory of ionization and of chemical electro-motive force, are studied. A discussion is given of the electrolytic winning and refining of metals; electroplating; the construction of primary cells and accumulators; the preparation and electrochemical behaviour of the elements used in incandescent lamps. The more important industrial processes are studied in detail.

Two lectures a week in the first term, for Electrical and Metallurgical Engineering students.—Professor Mennie.

*For Reference:—Allmand, Applied Electrochemistry.*

71. INORGANIC QUANTITATIVE ANALYSIS. A laboratory course specially designed for Mining Engineers. Four periods a week in the first term.—Professor Mennie and Demonstrators.

\*72. ADVANCED INORGANIC CHEMISTRY. (Arts and Science 6.) A course of lectures on inorganic chemistry, discussing the elements and their compounds in accordance with the general principles of physical chemistry.

Two lectures a week throughout the session.—Professor Johnson.

74. HISTORY OF CHEMISTRY. (Arts and Science 9.) (Optional for Applied Science students.) A short course dealing with the development of chemistry from the historical standpoint. One lecture a week in the second term.—Dr. Barnes.

\*75. COLLOID CHEMISTRY. (Arts and Science 15.) Two lectures per week in the first term. Two lectures a week in the second term optional. (Laboratory work, see 66A.)—Professor Steacie.

\*76. CHEMICAL ENGINEERING. A course dealing with the general principles of Chemical Engineering Processes. Two lectures per week.

Graduates with the degree of B.Eng. in Chemical Engineering may proceed, if their work has been of sufficiently high standard, to the degree of M.Sc. in Chemistry. See Announcement of the Faculty of Graduate Studies and Research.

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\* Subjects marked with a star are open to graduates as well as undergraduates.



DEPARTMENT OF CIVIL ENGINEERING AND APPLIED  
MECHANICSPROFESSORS:— $\left\{ \begin{array}{l} \text{E. BROWN.} \\ \text{R. DEL. FRENCH.} \end{array} \right.$ 

ASSOCIATE PROFESSOR:—R. E. JAMIESON.

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{G. J. DODD.} \\ \text{F. M. WOOD.} \end{array} \right.$ 

RESEARCH FELLOW:—C. M. MORSSSEN.

ASSISTANT IN CHARGE OF TESTING LABORATORY:—S. D. MACNAB.

**First Year.**

80. ENGINEERING PROBLEMS. Application of mathematics and mechanics to scientific and engineering problems of a simple nature, with special attention to the expression of scientific ideas in mathematical and graphical form.

Required of all engineering students. Three hours per week.—Professors Dodd, Wood and Weir.

**Second Year.**

81. MATERIALS OF CONSTRUCTION. Manufacture and properties of cast iron; wrought iron; crucible, Bessemer and open hearth steel. Course of prescribed reading with occasional conferences.

Required of all engineering students.—Professor Sproule.

*Text-book*:—Spring, Non-Technical Chats on Iron and Steel.

83. MECHANICS. The general principles of statics and of the dynamics of a particle are developed in the lectures, and numerous examples illustrating the application of mechanics to engineering problems are worked out.

The course includes equilibrium of forces; friction; force and funicular polygons; bending moment and shear; forces in framed structures; relative velocity; variable motion (straight line and curvilinear); simple harmonic motion; pendulum; springs; inertia forces in machines; crank effort curves; flywheels, etc.

The mathematical courses in calculus are taken concurrently and calculus methods are used freely. Two lectures and two hours problems per week.—Professors Brown, Jamieson and Dodd.

*Reference books*:—Poorman, Applied Mechanics; MacInnes, Elements of Practical Mechanics.



### Third Year.

86. MECHANICS. The work of the Second Year course in mechanics is extended, and the dynamical equations for the motion of a rigid body in two dimensions are deduced. Numerous examples are worked in detail, including problems on flywheels, kinetic energy of bodies having translation and rotation, oscillation of a rigid body about a fixed axis, impulse, etc. The elementary principles of the gyroscope are considered. Two lectures per week, first term.—Professor Brown.

*Reference books:*—Worthington, Dynamics of Rotation; Poorman, Applied Mechanics.

87. STRENGTH OF MATERIALS. This course deals with the fundamental principles of the strength of materials. It includes the following:—Stress, strain, resilience, and the elastic properties of materials used in construction; bending moment and shearing force diagrams; strength, curvature, and deflection of beams; continuous beams; cantilever beams and the like; reinforced concrete beams; the strength of shafting; spiral springs; columns; bending combined with tension or compression; elementary consideration of compound stresses; distribution of shearing stress on various sections, etc.

Required of all Engineering students. Two lectures per week during the session.—Professors Brown and Jamieson.

*Text-book:*—Resistance of Materials, Seely.

*Reference books:*—Strength of Materials.—Morley; Strength of Materials.—Case.

88. STRENGTH OF MATERIALS LABORATORY. The work illustrates the principles of the lecture course in Strength of Materials (87), and includes the following:—Tension tests of various materials; stress-strain diagrams by automatic recorders and by extensometers and scales; deflection of beams; torsion of shafts; experiments on helical springs and torsional oscillations of wires; the moment of inertia of flywheels; determination of Young's modulus; tests of Portland cement; demonstrations on the large testing machines, of the breaking of timber and reinforced concrete beams and small columns, the compressive strength of concrete, bricks, mortars, etc. Three hours per week, second term.—Professors Brown, Jamieson, Dodd and Wood, and Mr. MacNab.

89. FOUNDATIONS AND MASONRY. Borings; bearing power of soils; piles and pile driving; concrete piles; footings; grillages; underpinning; foundations under water, cofferdam, open dredging, pneumatic and freezing processes; estimation of quantities from drawings; estimates of costs.

Required of Civil Engineering students. One lecture per week, session; three hours problems per week, second term.—Professor Dodd.



*Text-book*:—Foundations of Bridges and Buildings, Jacoby and Davis.

90. STRUCTURAL ENGINEERING. Problems in the design of beams, plate girders, columns, roof trusses, knee bracing, etc.; working drawings; estimates of quantities. Required of students in Chemical, Civil, Mechanical, Metallurgical and Mining Engineering. One lecture and three hours problems per week, second term.—Professor Dodd.

*Reference books*:—Ketchum's Structural Engineer's Handbook; Ketchum's Mill Buildings; Bishop's Structural Drafting and Design of Details; Voss and Varney's Architectural Construction, Vol. II, Book Two, Steel Construction; Carnegie, Pocket Companion.

92. RAILWAY ENGINEERING. A study of the various types of railway survey; in particular, location and construction surveys, and the duties of a resident engineer; the economics of railway location, including locomotive and grade problems, operating expense analysis, and the effect of distance, rise and fall, and curvature, on cost of operation; turnouts and various track problems; spirals and vertical curves. Required of Civil Engineering students. Two hours per week, first term.—Professor Wood.

93. RAILWAY ENGINEERING. This course supplements and illustrates the work of course 92. It includes the following:—Design of turnouts and ladder tracks; compilation of field notes for spirals, compound curves, and problems of revision; calculation of earth-work quantities; location of a railway, with profile, earth-work, mass diagram, velocity profile, bill of material and cost estimate. Required of Civil Engineering students. Six hours per week, first term.—Professor Wood.

97. HYDRAULICS. The fundamental principles of hydraulics are considered and applied to problems on the discharge of orifices, notches, weirs, pipes and open channels under varying conditions. The theory of impact of jets and its application to turbines is also dealt with. Required of Civil Engineering students in the Third Year and of Mechanical and Electrical Engineering students in the Fourth Year. Two hours per week, first term.—Professor Brown.

*Text-book*:—Hydraulics, Schoder and Dawson (McGraw, Hill).

*Reference book*:—Hydraulics and its Applications—Gibson (Constable).

98. HYDRAULICS LABORATORY. The course illustrates the principles considered in course 97, and is taken concurrently. The work includes the following experiments:—Measurement of discharge from orifices, notches and pipes, both straight and bent, to determine hydraulic coefficients; pressure of jets impinging on vanes; tests of Venturi meter,



Pelton wheel, Francis and propeller turbines, centrifugal pumps, etc. Three hours per week, first term.—Professors Brown, Jamieson and Wood.

82. **SANITARY SCIENCE.** Basic principles of sanitation underlying the design of works for water supply, sewerage, the heating, lighting and ventilation of buildings, etc. Alternative with Map Projections 351. Four hours per week, first term.—Dr. Starkey.

85. **HIGHWAY ENGINEERING.** Vehicular traffic and its requirements; methods of financing; economics of location; surveys; distance, grade and curvature; drainage; earthwork; paving materials, manufacture and use; maintenance; bridges, culverts, sidewalks and other accessories; designs and estimates. Two lectures and six hours laboratory per week, second term.—Professor French.

*Text-book:*—Agg's Construction of Roads and Pavements, Wiley's Principles of Highway Engineering.

#### Fourth Year.

94. **THEORY OF STRUCTURES.** The analysis of statically determinate framed structures under fixed and moving loads; distortion of framed structures; swing spans; braced arches and arched ribs with two and three hinges; hingeless arches in concrete and reinforced concrete; frames with redundant members.

Required of Civil Engineering students. One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term.—Professor Jamieson.

*Reference books:*—Johnson, Bryan and Turneaure's Modern Framed Structures.

95. **STRENGTH OF MATERIALS.** The course includes the following:—The bending and deflection of beams loaded and supported in any manner; deflection due to shear; principle of work applied to deflection of beams, and statically indeterminate problems; bending of curved bars, and of unsymmetrical sections; elastic strains; relation between elastic constants; strength of thick shells; earth pressure theories; the design of floor and column systems for reinforced concrete buildings (including a critical study of standard specifications); footings; retaining walls, etc.

Required of Civil Engineering students. Optional in first term for Mechanical Engineering students. Two lectures per week during the first term; and one lecture and one draughting room period per week during the second term.—Professor Brown.

*Reference books:*—Strength of Materials, Morley; Strength of Materials, Case; Applied Elasticity, Timoshenko and Lessels; Concrete,



Plain and Reinforced, Vol. II, Taylor, Thompson and Smulski, or Reinforced Concrete Construction, Vols. II and III, Hool, or Reinforced Concrete Handbook, Hool and Johnson; Standard Specifications for Concrete and Reinforced Concrete.

96. BRIDGE DESIGN. The reasons governing the selection of a particular type of bridge; discussion of the loads to which the bridge will be subjected; calculation of the stress in the several members; determination of the sectional areas and forms of the members; design of the connections; preparation of complete drawings.

Required of students in Civil Engineering. Two lectures and six hours drafting per week.—Professor Dodd.

*Reference books:*—Kirkham's Structural Engineering; Ketchum's Structural Engineer's Handbook; Waddell's Bridge Engineering.

96A. BRIDGE DESIGN. A somewhat briefer course than 96. Required of students taking the Municipal alternative.—Professor Dodd.

99. HYDRAULIC MACHINES. The course deals mainly with the development of the modern turbine and centrifugal pump and includes the following general topics:—Application of the principles of hydraulics in explanation of the functions of the various parts of the machines; development and classification of turbines; specific speed; characteristics of different types and method of interpreting results of tests on small models; essential features and mechanical details of typical turbines and pumps; principal hydraulic formulæ underlying design, etc. Two hours per week, second term.

Required in the Fourth Year of Students in Mechanical Engineering and alternative for students in Civil and Electrical Engineering.—Professor Brown.

*Reference books:*—Hydro-Electric Handbook, Creager and Justin; Proceedings of Engineering Societies, etc.

100. HYDRAULICS AND LABORATORY. A short course embodying the hydraulic principles outlined under courses 97 and 98 will be given in the first term. There will be one lecture per week, and six or more laboratory periods at hours to be arranged. Required of Mining, Metallurgical and Chemical Engineering students in the Fourth Year.—Professor French.

*Text-book:*—Hydraulics, King and Wisler (Wiley).

101. MUNICIPAL ENGINEERING. Fundamental principles of water supply, sewerage, sewage disposal, and the treatment of garbage and rubbish. Required of Civil Engineering students not taking Municipal alternative. Two lectures per week, session; three hours problems per week, second term.—Professor French.



*Text-books:*—Turneure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

#### 102. WATER SUPPLY AND SEWERAGE.

(a) *Water Supply.* Quantity, quality and pressure; rainfall and evaporation; run-off; pumping machinery; storage; dams, aqueducts distribution systems, etc.; appurtenances; purification systems; fire service; construction materials and methods; design and estimates.

(b) *Sewerage.* Quantity of sanitary sewage and of storm water; sewerage mains and appurtenances; construction methods and materials; design and estimates.

(c) *Sewage Disposal.* Characteristics of sewage; disposal by dilution; screening and sedimentation; sludge; bacterial methods; costs and results; designs and estimates. Required of students taking Municipal alternative.

Three lectures and six hours problems per week in second term.—Professor French.

*Text-books:*—Turneure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

103. WASTE DISPOSAL. Characteristics of civic wastes; garbage, rubbish and ashes; disposal methods, dumping, land treatment, incineration, reduction; economic aspects; designs and estimates. Required of students taking Municipal alternative. One hour per week, first term.—Professor French.

*Text-book:*—Hering and Greeley's Collection and Disposal of Municipal Refuse.

104. CIVIC ADMINISTRATION. This course is designed to emphasize the connection between the work of the municipal engineer and other civic activities. Such subjects as civic government and finance, education, charities and correction are discussed, as well as town planning and engineering work of minor importance not covered in other courses. Required of students taking Municipal alternative. One hour per week, first term.—Professor French.

*Text-book:*—No regular text-books are prescribed, but free use is made of various Government bulletins and of current periodical literature.

### Courses for the Degree of Master of Engineering

Graduate Courses are offered in Statically Indeterminate Stresses, Technical Elasticity, Secondary Stresses, Reinforced Concrete Arches (Advanced), Hydraulics and Highway Engineering.

For particulars of these, see page 297.



## DEPARTMENT OF DRAWING AND DESCRIPTIVE GEOMETRY

PROFESSOR:—HENRY F. ARMSTRONG.

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{L. R. MCCURDY.} \\ \text{D. E. EVANS.} \\ \text{A. N. HARRIS.} \end{array} \right.$ 

This Department provides a general course in drafting office methods and a training in the groundwork necessary to prepare the student for the work required in the Engineering courses of the Third and Fourth Years. The proper use of drawing instruments and drafting equipment is practised and study is made of the various projection methods commonly employed. The problems in Descriptive Geometry are especially designed to develop the power of mentally picturing unseen objects and realizing details and conditions such as engineers are called upon to consider in preparing designs.

## First Year.

340. MECHANICAL DRAWING. Instruction in the use of drawing instruments and materials, dimensioning, conventions and standards; preparation of working drawings and tracings of machine details and structural work, and the detailing of assembly drawings; the making of drawings from dimensioned sketches. Three hours per week.—Professor Armstrong and Staff.

*Text-book:*—Book of Plates, obtainable at Bursar's Office.

341. DESCRIPTIVE GEOMETRY AND GEOMETRICAL DRAWING.—Geometrical methods; plane figures; areas; paths of points moving in planes, etc.; orthographic projections of points, lines, plane figures and solid objects; shadows, etc.

Three hours per week.—Professor Armstrong.

*Text-books:*—Geometrical Drawing, by H. F. Armstrong; Descriptive Geometry, by H. F. Armstrong.

342. FREEHAND DRAWING. The object of this course is to train the eye to observe and the hand to record the essential characteristics and proportions of objects by making sketches and diagrams of machines, etc., and to prepare dimensioned sketches from which to make scale drawings.

One hour and a half per week.—Professor Armstrong.



343. LETTERING. Types and titles such as are chiefly in use in drafting offices, including single-line, block and Roman lettering, and stencils.

One hour and a half per week.—Professor Armstrong.

### Second Year.

344. MECHANICAL DRAWING. Continuation of Subject 340.

Three hours per week.—Professor Armstrong and Staff.

345. DESCRIPTIVE GEOMETRY AND PERSPECTIVE. Sections of solids; intersections and developments of surfaces; intersecting planes; tangent planes; axometric, including isometric, projections; perspective projection.

Three hours per week.—Professor Armstrong.

*Text-book:*—Descriptive Geometry, Henry F. Armstrong.

### DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSOR:—C. V. CHRISTIE.

ASSOCIATE PROFESSOR:—G. A. WALLACE.

ASSISTANT PROFESSOR:—E. G. BURR.

LECTURERS:— $\begin{cases} \text{W. H. SCHIPPEL,} \\ \text{F. S. HOWES.} \end{cases}$

DEMONSTRATOR:—S. A. CRAIG.

111. ELEMENTS OF ELECTRICAL ENGINEERING. For Third Year students in Mechanical and Mining Engineering and Fourth Year students in Chemical, Civil and Metallurgical Engineering.

A general course in electrical engineering, treating of the laws of electro-magnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery; the fundamental principles of electric lighting, power distribution and electric traction. Two hours per week.—Professor Wallace.

*Text-book:*—Gray's Principles and Practice of Electrical Engineering.

112. ELECTRICAL ENGINEERING LABORATORY. For Third Year students in Mechanical and Mining Engineering and Fourth Year students in Chemical, Civil and Metallurgical Engineering.

Includes tests of direct current metering and controlling devices, generators, motors, boosters, and motor-generators; experiments on



variable current flow in circuits; tests of alternators, synchronous motors and converters, induction motors and transformers, etc. Three hours per week.

### Third Year.

113. ELECTRICAL ENGINEERING. The theoretical consideration of current flow in circuits; the laws of electro-magnetism and of the magnetic circuit; the theory and operating characteristics of direct current machinery; the principles of alternating current machinery. Required of students in Electrical Engineering. Four hours per week.—Professor Christie.

*Text-book:*—Christie's Electrical Engineering.

114. ELECTRICAL ENGINEERING LABORATORY. This course includes the preparation of reports, the use and protection of electrical apparatus including measuring instruments; the theoretical and experimental determination of the characteristics of electrical machinery; shop testing. Experiments are conducted in the laboratory on electric circuits, metering and controlling devices, generators, motors, boosters, balancers and motor-generator sets. These experiments are intended to illustrate the principles of action of the apparatus. Half of the time allotted to the laboratory work is spent in the draughting room on the analysis and solution of Electrical Engineering problems.

Required of students in Electrical Engineering. Laboratory, six hours per week. Problems, six hours per week.

### Fourth Year.

117. ELECTRICAL ENGINEERING. The treatment of alternating current circuits by vector diagrams and vector equations; the theory and operating characteristics of alternating current machinery. Required of students in Electrical Engineering. Four hours per week.—Professor Christie.

*Text-book:*—Christie's Electrical Engineering.

118. ELECTRICAL ENGINEERING LABORATORY. Tests are made in the laboratory on Alternators, synchronous motors, and converters, compensators, induction motors, transformers, frequency and phase changing apparatus, potential regulators, rectifiers, condensers, etc. Machine characteristics are in many cases determined both from theoretical considerations and through experimentation. Required of students in Electrical Engineering. Laboratory, nine hours per week.



120. ELECTRIC LIGHTING AND POWER DISTRIBUTION. Transmission and distribution systems are taken up under the following heads:—Selection of generators, transformers, switches and auxiliary apparatus with a study of their characteristics and limitations; wiring diagrams and switchboard design; line design and construction, selection of towers, insulators and conductors, calculation of sags and spans, high voltage and transient phenomena; the protection of overhead lines, cable system and station apparatus; industrial applications of electrical apparatus; financial considerations. This subject is required of students in Electrical Engineering. Two hours per week, first term.—Professor Burr.

*Text-book:*—Standard Handbook for Electrical Engineers.

121. ELECTRIC TRACTION. Urban, interurban and main line electrification is taken up under the following heads:—Choice of system and apparatus; calculation of motor rating and car equipment; overhead and track construction; methods of control, braking and regeneration; storage batteries and boosters; generating stations and substations, distribution systems, power supply; mitigation of electrolysis and inductive interference from Electric Railways.

This subject is required of students in Electrical Engineering. Two hours per week, second term.—Professor Wallace.

*Text-book:*—Standard Handbook for Electrical Engineers.

122. ELECTRICAL DESIGN AND PROBLEMS. The electrical design of direct and alternating current machinery. Special attention is paid to the limitations of the different types of machines and to the preparation of specifications. Required of students in Electrical Engineering. Lectures, one hour per week. Problem work, three hours per week, first term; six hours per week, second term.—Professor Christie.

*Text-book:*—Gray's Electrical Machine Design.

123. APPLICATIONS OF ELECTRICITY. Lectures on industrial and general application of electric power, the electrical supply systems for industrial power and lighting; special problems of plant designs; special problems of lighting in electrical systems; special problems of electrical transmission. Lectures, three hours per week, second term.—Professor Burr.

124. ELECTRICAL MEASUREMENTS AND LABORATORY. Measurements of resistance, inductance, capacity, current, electromotive force, etc. Testing of meters, conductivity tests; iron testing, ratio and phase angle of current transformers; photometry; thermionic valve testing and other physical tests of an engineering nature. Two lectures per week, first term. One laboratory period per week, session.—Professor Wallace.



125. COMMUNICATION ENGINEERING. Radio Communication.—The phenomena of resonance in series, parallel and coupled circuits; the theory and operating characteristics of the thermionic vacuum tube; the use of the vacuum tube as amplifier, oscillation generator, modulator and detector; the general problem of distortion in the transmission and reception of speech and music. Two lectures and one laboratory period per week, first term.—Dr. Howes.

Wire Communication.—The fundamentals of wire telephony and telegraphy, including transmission theory and inductive co-ordination of power and communication systems. Two lectures per week, second term.—Professor Wallace.

### **Courses for the Degree of Master of Engineering or Master of Science**

Graduate courses are offered in Advanced Mathematics, Physics, Electrical Machine Design, Protection of Electrical Power Systems, Stability of Electrical Power Systems, Inductive Co-ordination of Power and Signal Systems, Electric Circuit Analysis, and Advanced Wire Transmission Theory.

For particulars of these, see page 504.

### **ENGINEERING REPORTS, HISTORY OF SCIENCE, ENGINEERING LAW AND ECONOMICS**

PROFESSOR OF HIGHWAY AND MUNICIPAL ENGINEERING:—  
R. DEL. FRENCH.

PROFESSOR OF ACCOUNTANCY:—R. R. THOMPSON.

ASSISTANT PROFESSOR OF ECONOMICS:—JOHN THOMAS CULLITON.

LECTURER IN ECONOMICS:—EUGENE FORSEY.

LECTURER IN LAW:—J. W. WELDON.

131. ENGINEERING REPORTS. One lecture and two hours' conference per week in the Second Year.—Professor French.

170. HISTORY OF SCIENCE. A course of lectures on the History of Science and the History of Engineering by various lecturers, supplemented by reading and written exercises. One hour per week in the First Year.

171. ELEMENTS OF POLITICAL ECONOMY. The lectures will deal with the production and distribution of wealth; the means by which



these processes are effected; the means by which they are controlled and regulated by the state or the community; the various theories concerning their operation and regulation; their effect on society, labour and capital; theories of money and credit; prices; public finance and taxation. Two hours per week in the second term of the Third Year.—Professor Culliton.

*Book of reference:*—McGibbon, Economics for Canadian Readers.

172. (a) CORPORATION FINANCE. A course of instruction in the fundamental principles of accounting and corporation finance. The following will be dealt with:—Capital and revenue receipts and expenditure; corporation; shares and bonds; fixed and current assets and liabilities; valuation; depreciation; reserves; manufacturing, construction, trading and profit and loss statements; overhead rates; estimates.—Professor R. R. Thompson.

(b) CANADIAN ECONOMIC PROBLEMS. This course is intended to familiarize engineering students with the most important economic problems of the day; the currency and banking system; taxation; trade policy; the history of the tariff; transportation; its development and policy.—Mr. Forsey.

Two hours per week for the first term of the Fourth Year.

175. ENGINEERING LAW. This course is intended to present such an outline of the law as will be useful to engineers and business men. One hour per week in the Fourth Year.—Mr. Weldon.

#### DEPARTMENT OF GEOLOGICAL SCIENCES

PROFESSOR OF GEOLOGY:—JOHN J. O'NEILL.

PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM.

PROFESSOR OF PALEONTOLOGY:—T. H. CLARK.

ASSISTANT PROFESSORS OF GEOLOGY:— $\left\{ \begin{array}{l} \text{J. E. GILL.} \\ \text{F. F. OSBORNE.} \end{array} \right.$

LEROY FELLOW IN GEOLOGY:— \_\_\_\_\_.

GRADUATE ASSISTANTS:— \_\_\_\_\_.

#### Third Year.

141. GENERAL GEOLOGY. (Arts and Science 1.) The lectures make a general survey of the whole field of geology.

(a) Mineralogy and Petrology.—The common rock-forming and economic minerals and more important rocks.



(b) Dynamical and Structural Geology.—The processes of vulcanism; volcanoes, geysers, etc.; disintegration of the rocks to form soils; denudation of the earth's surface under atmospheric agencies, rain, running water, glaciers, etc., and the deposition of the materials as sediments; mountain building, earthquakes, folding, faulting, metamorphism, etc.

(c) Historical Geology, including a description of the fauna and flora of the earth during the successive periods of its history, as well as the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides.

In addition to the lectures there will be excursions on Saturday mornings for five or six weeks after term opens; students attending these will be excused from any classes which conflict with the excursions.

Three hours, Mon., Wed. and Fri., at 9 and one hour laboratory per week.—Professor Clark.

*Text-book*:—"Textbook of Geology," Pirsson & Schuchert, 2 vols.

142. MINERALOGY. (Arts and Science 5.) The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc., and the principles of classification. Two hours, Tu. and Th., at 9.—Professor Graham.

143. DETERMINATIVE MINERALOGY. (Arts and Science 6.) Laboratory practice in blow-pipe analysis and its application to the determination of mineral species. Two laboratory periods, first term. Th. and Fri., 2 to 5.—Professor Graham.

#### Fourth Year.

146. PETROGRAPHY. (Arts and Science 10.) The modern petrographic methods are described, and the classification and description of rocks are then taken up.

In addition to the lectures, one period a week is devoted to practical work in the petrographic laboratory. Thin sections and hand specimens of rocks and polished surfaces of ores are examined.



First term, Tu., at 10; laboratory, first term, Fri., 10-1, second term, Sat., 9-12.—Professors Graham and Osborne.

*References:*—"Rocks and Rock Minerals," by Pirsson revised by Knopf; "Minerals and the Microscope," by Smith.

147. PRACTICAL AND FIELD GEOLOGY. (Arts and Science 7.) Study of the structure and metamorphism of the earth's crust with reference to folding, faulting, etc., and to igneous intrusions in their bearing upon the occurrence of valuable mineral deposits; discussion of the methods employed in carrying out geological surveys for various purposes and in the construction and interpretation of geological maps and sections.

Lectures, laboratory and field mapping. First term, Th. at 11, and Sat. morning, 9-12.—Professor Gill.

*References:*—"Structural and Field Geology," by Jas. Geikie, D. Van Nostrand & Co., N.Y., 1905; "Handbook for Field Geologists," by Hayes; "Field Geology," by F. H. Lahee, McGraw Hill Book Co., N.Y., 2nd edition, 1923.

148. ORE DEPOSITS. (Arts and Science 8.) The nature, mode of occurrence and classification of ore deposits; typical occurrences are described and their origin discussed. The more important non-metallic minerals, *e.g.*, fuels, clays, building stones, etc., will be similarly treated, as well as questions of water supply, artesian wells, etc.

Second term, Tu., 10 to 12, Wed. and Th., at 11.—Professor O'Neill.

*References:*—"Mineral Deposits," Lindgren; "Economic Aspects of Geology," Leith; "Geology of Petroleum," Emmons; "Ore Deposits of the U.S. and Canada," Kemp; Publications of the Geological Survey of U.S. and of Canada.

149. GEOLOGY OF CANADA. (Arts and Science 4.) A general description of the geology and mineral resources of the Dominion. One hour, first term, Wed., at 11.—Professor O'Neill.

150. OPTICAL MINERALOGY AND CRYSTALLOGRAPHY. (Arts and Science 9.) A short course of lectures for students in chemistry, with laboratory practice in the measurement and drawing of crystals; calculation of axial ratios, etc.; use of the polarizing microscope, axial angle apparatus, etc.—Professor Graham.

153. FIELD WORK AND GEOLOGICAL MAPPING. Students in mining will receive instruction in field work and geological mapping during the session as a part of subject No. 147, and in the summer school of mining.—Professors O'Neill, Clark, and Gill.



## DEPARTMENT OF MATHEMATICS

PROFESSORS AND JOINT CHAIRMEN:— $\left\{ \begin{array}{l} \text{N. B. MACLEAN.} \\ \text{C. T. SULLIVAN.} \end{array} \right.$

ASSOCIATE PROFESSORS:— $\left\{ \begin{array}{l} \text{W. L. G. WILLIAMS.} \\ \text{R. E. JAMIESON.} \end{array} \right.$

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{G. J. DODD.} \\ \text{F. M. WOOD.} \end{array} \right.$

## First Year.

191. PLANE TRIGONOMETRY. Solid geometry and plane trigonometry. First term, two hours per week.—Professors Dodd and Wood.

*Text-books:*—Hall and Stevens, *School Geometry*, Part VI (Macmillan); Murray, *Plane and Spherical Trigonometry* (Longmans).

192. ALGEBRA. Interest and annuities, practical applications of graphs, properties of polynomials, undetermined coefficients, partial fractions, summation of series, limits, derivatives, tangents, infinite series, binomial series, exponential and logarithmic series; and an introduction to analytic geometry covering coördinate systems and the straight line. Five hours per week.—Professors MacLean and Williams.

*Text-books:*—Barnard and Child, *A New Algebra*, Vol. II. (Macmillan); Nowlan, *Analytic Geometry* (McGraw-Hill Book Company).

193. MENSURATION AND SPHERICAL TRIGONOMETRY. Mensuration of solid figures and the trigonometry of the spherical triangle. Second term, two hours per week.—Professors Dodd and Wood.

*Text-books:*—As in Course 191.

194. MECHANICS. An elementary course in dynamics, statics, and hydrostatics. Two hours per week.—Professors Jamieson and Wood.

*Text-book:*—Mimeographed notes by Professor Jamieson.

## Second Year.

197. ANALYTIC GEOMETRY. The circle, parabola, ellipse, hyperbola, polar coördinates, transformation of coördinates, and the general equation of the second degree. First term, three hours per week.—Professors MacLean and Williams.

*Text-book:*—Nowlan, *Analytic Geometry* (McGraw-Hill Book Company).



198. CALCULUS. An elementary course in the differential and integral calculus; differentiation of functions of one and more variables, successive differentiation, tangents, etc., curvature, maxima and minima, integration, with applications to the finding of areas, lengths of arcs, volumes, moments of inertia, etc. First term, two hours per week; second term, four hours per week.—Professors MacLean and Williams.

*Text-book:*—Murray, Differential and Integral Calculus (Longmans).

### Third Year.

201. DIFFERENTIAL EQUATIONS. An introductory course in the theory of differential equations, with particular emphasis upon the solution of the simpler types of ordinary differential equations and applications thereof to problems in electricity, flow of heat, etc. Prescribed for all Electrical Engineering students of the Third Year, optional for all others. First term, two hours per week.—Professor MacLean.

*Text-books:*—Murray, Differential Equations (Longmans); Fry, Elementary Differential Equations (D. Van Nostrand Company).

### DEPARTMENT OF MECHANICAL ENGINEERING

PROFESSORS:— $\left\{ \begin{array}{l} \text{C. M. MCKERGOW.} \\ \text{A. R. ROBERTS.} \\ \text{L. R. THOMSON.} \end{array} \right.$

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{J. A. COOTE.} \\ \text{R. H. PATTEN.} \end{array} \right.$

LECTURER:—L. R. MCCURDY.

SHOP INSTRUCTOR:—W. GATEHOUSE.

### Second Year.

218. MECHANICS OF MACHINES. *Kinematics of Machines.*—Constrained motion; kinematic pairing; velocity and acceleration in mechanism; centrodes; analysis and classification of simple mechanism, including the quadric crank chain, the slider crank chain and various wheel trains; designs of involute and of cycloidal wheel-teeth. One lecture, one laboratory period in second term.—Professor Patten.

*Text-book:*—G. L. Guillet, Kinematics of Machines (Wiley).



**Third Year.**

223. MECHANICAL ENGINEERING LABORATORY. First term, course same as 228; second term, experimental work on the relative value of throttling and expansion governors; effect on the economy of steam engine of changing from simple to compound, triple, or quadruple expansion; the testing of steam boilers, producer gas engines, air compressors, steam turbines, and a complete steam power plant test. Required of students in Electrical Engineering. Six hours per week in first term and three hours per week in second term.—Professor Patten.

*Reference book:*—Carpenter, Experimental Engineering.

224. MECHANICS OF MACHINES. Alternative with Accounting (238); relative motion and displacement; crank effort diagrams, flywheels and inertia forces; the mechanism of the simple slide valve and of expansion valves; solution of valve setting problems; the function and dynamics of governors; elements of engine balancing; friction and lubrication. Required of students in Mechanical Engineering. Three hours per week.—Mr. McCurdy.

*Text-book:*—Ewing's Steam Engine (Camb. Univ. Press).

225. MACHINE DESIGN. Principles of the strength of materials as applied to the design of the parts of machines; fastenings used in machine construction, bolts, screws, keys, cotters, rivets, and riveted joints; journals and bearings; shafts and couplings. Required of students in Mechanical and Electrical Engineering. Two hours per week.—Professor Roberts.

*Text-book:*—Unwin's Machine Design, Part I (Longmans). *Book of reference:*—Principles of Machine Design, R. E. McKay (Arnold); Elements of Machine Design, Kimball and Barr (Wiley & Sons).

226. MECHANICAL ENGINEERING. General course in Mechanical Engineering of Power Plants and Prime Movers.

Fuel and combustion, steam, and steam production; corrosion and defects of boilers; boiler accessories, principles of selection and arrangement; the steam engine; estimation of power developed and economy; condensers, pumps and accessories; steam turbines; principles of design in steam plants; gas engines and gas producer plants. Required of all Engineering students, except those in Mechanical Engineering. Two hours per week.—Professor McKergow.

*Text-book:*—MacNaughton, Steam Engines.

227. MECHANICAL ENGINEERING. Same course as 226, but more time is given to working out practical problems. Required of students in Mechanical Engineering. Three hours per week.—Professor McKergow.

*Text-book:*—As for 226.



228. MECHANICAL ENGINEERING LABORATORY. Testing and calibration of indicators, brakes and other measuring instruments; tests to determine the efficiency of belt or other transmission gearing; the properties of lubricants; the economy and performance of a steam engine and boiler, of a gas engine, of an air compressor, and of a pump. Required of all Engineering students, except those taking the Electrical Engineering course. Three hours per week.—Professor Patten.

*Reference book*:—Carpenter, Experimental Engineering.

229. THERMODYNAMICS. Fundamental laws and equations of thermodynamics; their application to gases and to saturated super-heated vapours; efficiency of ideal heat engines; properties of steam, and elementary theory of the steam engine; elementary theory of gas and hot-air engines. Required of Third Year students in Mechanical and Electrical Engineering. Two hours per week.—Professor Roberts.

*Text-books*:—Marks and Davis, Steam Tables; Elements of Engineering Thermodynamics, Moyer, Calderwood and Potter.

*Reference book*:—Engineering Thermodynamics, Kiefer and Stuart.

231. MECHANICAL DRAWING. This course is supplementary to the course in machine design and consists of exercises in design and draughting of fastenings, machine parts and simple machines. Required of Mechanical Engineering students. Six hours per week for the first term and three hours per week for second term.—Mr. McCurdy.

233. Introduction to courses Nos. 236 and 231. These courses are for four weeks in September, preceding the work of the Third Year.—Messrs. McCurdy and Gatehouse.

236. MACHINE SHOP. Lathe work; marking off; centering; turning and boring; radial facing; filing; grinding and polishing; internal and external screw cutting; change gear calculation; taper turning and bench work. Required of students in Mechanical Engineering. Three hours per week for session.—Mr. Gatehouse.

237. INDUSTRIAL ENGINEERING. Fundamental principles, modern tendencies and problems arising therefrom, scientific management, routing, etc., personal and collective bargaining.—Two lectures per week during the first term.—Professor Coote.

*Text-book*:—Industrial Organization (Kimbal), third edition.

238. ACCOUNTING. Alternative with Mechanics of Machines (224). This course is designed to give students the fundamental principles of bookkeeping and accounting so that they will be in a position to deal intelligently with the books of account and the financial statements met



with in engineering work, particularly in manufacturing. One hour lecture and one problem period per week.—Professor Coote.

*Text-book*:—Fundamentals of Accounting, Cole.

#### Fourth Year.

240. MECHANICS OF MACHINES. (a) *Valve gears and governors*. Gyrostatic action in machines; further treatment of engine governors; knocking and shocks in reciprocating machinery; valve gears.—Prof. McKergow.

(b) *Aerodynamics*. The construction of an aeroplane; methods of experiment in aeronautics; prediction of performance from experimental data; stability and control; the theory of air screws. Three hours per week.—Professor McKergow.

*Text-book*:—The Airplane and its Engine, Chatfield and Taylor, McGraw-Hill.

241. DESIGNING. The complete design of an engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared. Required of students in Mechanical Engineering. Three hours per week.—Professor Roberts.

242. MACHINE DESIGN. (a) Designs of power transmission, gearing, including belts, ropes, friction, chain and toothed gearing, fits and fitting; (b) Engine details, including cylinders, piston rods, connecting rods, shafts, fly-wheels and machine frames. Required of Mechanical Engineering students. Two hours per week.—Professor Roberts.

*Text-book*:—Unwin's Machine Design, Parts I and II (Longmans).

*Reference book*:—Elements of Machine Design, Kimball and Barr.

243. MACHINE DESIGN. Course same as 242 (a). Two hours per week during the second term. Optional for Electrical Engineering students.—Professor Roberts.

244. POWER PLANT DESIGN. The arrangement, design and operation of power plants worked by steam or internal combustion prime movers; requirements for lighting, heating and power distribution. One lecture hour and one drafting room period per week. Required of students in Mechanical Engineering.—Professor McKergow.

*Text-book*:—Gebhardt, Steam Power Plant Engineering.

247. HEATING AND VENTILATION OF BUILDINGS. Loss of heat from buildings; radiation surfaces; design and operation of heating systems;



principles of ventilation; fans and blowers; design and duct systems; temperature and humidity control. One hour per week.—Professor McKergow.

*Text-book:*—Allen and Walker, Heating and Ventilating.

249. MECHANICAL ENGINEERING LABORATORY. Experimental investigation of:—action of governors; performance of fans and blowers; performance of steam boilers, steam engines, steam turbines, refrigeration machines, condensers, gas engines and producers, efficiency of air compressing and pumping machinery; tests of a complete steam power plant, gas power plant and a heating and ventilating system. Ten hours per week. Required of students in Mechanical Engineering.—Professors McKergow and Patten.

*Reference book:*—Carpenter, Experimental Engineering.

249A. MECHANICAL ENGINEERING LABORATORY. Similar to course 249. Taken by students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Two periods per week.

251. THERMODYNAMICS. Efficiency of the piston steam engine, behaviour of steam in the cylinder, influence of size, speed rate of expansion, compounding, superheating and steam-jacketing; flow of gases and vapours through orifices and nozzles and applications to the design of steam-turbines; theory and analysis of performance of internal-combustion engines; refrigerating-machine cycles. Required of students in Mechanical Engineering. Two hours per week.—Professor Roberts.

*Text-books:*—Engineering Thermodynamics, Kiefer and Stuart.

*Books of reference:*—The Gas Petrol and Oil Engine, Part I, Clerk; Steam Turbine, Moyer.

252. MACHINE SHOP. Experimental work and studies, for the minimum times required for production, involving a consideration of the best available machine tool speeds, necessary power of belting, most efficient tool angles, quality of metal and the kind of tool steel used. The course includes work in connection with the lathe, the planer, slotter, shaper and miller; instruction in gear cutting and cutter grinding. Required of students in Mechanical Engineering. Three hours per week.—Mr. Gatehouse.

253. INDUSTRIAL ENGINEERING. A consideration of the economic factors that influence the location of industrial plants, such as the capacity of the market, the location of raw materials and the source of power, transportation facilities and costs, etc.; selection of local site and



design of the plant; organizing and financing the company; organizing for operation and forecasting results. Two lectures and one drafting room period per week throughout the year.—Professor Coote.

*Text-book:*—Walker, Management Engineering (McGraw-Hill).

254. INDUSTRIAL ADMINISTRATION. The control of industry—production, finance and sales by means of planning systems, control boards, charts, budgets, standard costs, etc. The lectures will be largely descriptive of the different control devices and the problem periods will be devoted to their practical working out and use. One lecture and one drafting room period per week in the second term.—Professor Coote.

257. EXPERIMENTAL ENGINEERING. Theory of errors; calibration and use of instruments; measurement of power; methods of testing power-plant apparatus and the tabulation of results. Required of students in Mechanical Engineering. One hour per week.—Professor Roberts.

*Text-book:*—Carpenter, Experimental Engineering.

258. INDUSTRIAL RELATIONS. A study of the problems arising out of the administration of industrial enterprises on the human side; the recruiting of the labour force; introducing the worker to the factory; health and safety; job analysis and job specifications; education; wages and hours; profit-sharing, shop committees and collective bargaining. Two lectures per week in the first term.—Professor Coote.

*Text-book:*—Labor Management—Watkins (McGraw-Hill).

Summer Schools—see note (c), page 289.

### Courses for the Degree of Master of Engineering or Master of Science

Graduate Courses are offered in Engineering Thermodynamics, Machine Design, Industrial Engineering and Fuel Engineering. For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.



## DEPARTMENT OF METALLURGICAL ENGINEERING

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

LECTURER:—HAROLD J. ROAST.

SPECIAL LECTURER:—CHARLES F. PASCOE.

RESEARCH FELLOW:—W. G. VAN NOTE.

## Third Year.

261. ELEMENTARY METALLURGY AND LABORATORY. An introductory course in general metallurgy, including metals and alloys, fuels, furnaces, refractory materials, pyrometry and calorimetry, metallography, heat treatment and testing of metals, smelting and refining operations and a short account of the metallurgy of copper, lead, iron and steel.

The instruction consists of lectures during the first term and a short laboratory course in which the following exercises are carried out as far as time permits:—(a) Roasting a sulphide or arsenical ore; (b) formation and properties of copper or lead mattes and slags; (c) smelting a copper or lead ore in crucibles; (d) melting and casting certain metals and alloys; (e) the use of electric furnaces; (f) leaching a copper or silver ore; (g) elementary exercises in some of the following:—pyrometry, calorimetry, tests of refractory materials, microscopic examination of metals, heat-treatment of iron or steel, and some simple mechanical testing methods.

Two lectures a week during the first term and one laboratory period during the second term.—Professor Sproule.

A short laboratory course in practical pyrometry is given to students taking course 8B, Theory of Heat, in the Department of Physics.

262. ELEMENTARY METALLURGY. The course of lectures as in 261, but without laboratory work, for Chemical and Mining Engineering students. Two lectures a week in first term.—Professor Sproule.

263. FIRE-ASSAYING. The lectures and instruction sheets give an account of the furnaces, balances and other appliances used in assaying, the sampling and preparation of ores, the fluxes and reagents employed, and the methods used in assaying gold, silver and lead ores, copper and copper ores and mattes, gold and silver bullion and base bullion, cyanide precipitates and solutions.

One lecture a week during the second term for Metallurgical and Mining students.—Professor Sproule.



264. FIRE-ASSAYING LABORATORY. The students practise as many of the above-mentioned methods as possible in the time allowed for this course. Care is taken that a student shall be able to make such assays as would be required at a mine, and with a fair degree of accuracy. Students usually have an opportunity of doing additional fire-assaying in their Fourth Year.

Two laboratory periods a week during the second term, for Metallurgical and Mining students.—Professor Sproule.

*Reference books:*—E. A. Smith, Sampling and Assay of the Precious Metals; E. E. Bugbee, Fire-Assaying; Fulton and Sharwood, Manual of Fire-Assaying.

265. METALLURGICAL CALCULATIONS. This is an introductory course on the application of exact chemical and physical laws to metallurgical operations, such as the combustion of fuel, the smelting of ores and the construction and heating of furnaces. One lecture a week during the session for Metallurgical students.—Professor Stansfield.

*Text-book:*—J. W. Richards, Metallurgical Calculations, Vol. I.

267. METALLURGICAL FIELD SCHOOL. This is held at the end of the Third Year. The first part consists of visits to metallurgical works in Montreal and the vicinity, supplemented by reading and lectures. The second part consists of visits to smelters, steel-works and metallurgical refineries throughout Canada. Students are required to keep notes during the school and to submit a written account of their observations at the beginning of the next term.

The Field School has been held in Nova Scotia, British Columbia and other parts of Canada, and in Pennsylvania, but it is usually arranged in Ontario, as this offers the greatest variety at the least cost. The only charge made is for board, lodging and railway fares, and care is taken to keep these as low as possible.

At the close of the School it is usually possible for each student to obtain suitable employment for the summer at one of the works visited, and students are strongly advised to take this means of obtaining metallurgical experience.

#### Fourth Year.

##### 271. METALLURGY (General).

- (a) The metallurgy of copper, lead, gold, silver, zinc and nickel.
- (b) The metallurgy of iron and steel.

Two lectures a week during the session and a few laboratory demonstrations, for Metallurgical and Mining students.—Professor Stansfield.



*Text-books*:—H. M. Boylston, An Introduction to the Metallurgy of Iron and Steel; D. M. Liddell, Handbook of Non-ferrous Metallurgy; C. R. Hayward, Outline of Metallurgical Practice.

272. METALLURGY (Advanced).

(a) General advanced metallurgy.

*Text-books*:—Fulton, Principles of Metallurgy; Jeffries and Archer, The Science of Metals.

(b) A more detailed account of the metals mentioned in 271, and of aluminum, antimony, arsenic, bismuth, cadmium, cobalt, mercury, platinum and tin.

Required of Metallurgical students. Two hours a week during the session.—Professor Stansfield.

*Reference books*:—Hofman and Hayward, Metallurgy of Copper; Hofman, Metallurgy of Lead; Hofman, Metallurgy of Zinc and Cadmium; Addicks, Copper Refining; Liddell, Handbook of Non-Ferrous Metallurgy; Johnson, The Principles, Operation and Products of the Blast Furnace; Forsythe, The Blast Furnace and the Manufacture of Pig Iron.

273. FIRE-ASSAYING AND LABORATORY. A short course for Chemical Engineering students. For particulars, see 263 and 264. One laboratory period and one lecture per week in the first term.—Professor Sproule.

274. METALLURGICAL LABORATORY AND THESIS. Three periods per week in the second term are devoted to the serious study of some metallurgical problem. The students work singly or in pairs and prepare a thesis containing an account of important published work bearing on the subject as well as the result of their own experimental researches. Required of Metallurgical students.—Professor Stansfield.

275. ELECTRO-METALLURGY AND LABORATORY. The course of lectures is devoted mainly to a consideration of the principles and construction of electric furnaces and their uses for smelting and refining metals. The refining of metals and the recovery of metals from their ores by electrolysis of aqueous solutions is also considered. The laboratory work is arranged to illustrate the lectures. Groups of students operate each of the main types of electric furnace and become familiar with some of the principles of electric furnace construction and design. Two lectures a week and one laboratory period during the second term for Metallurgical students.—Professor Stansfield.

*Text-books*:—Stansfield, The Electric Furnace, and The Electric Furnace for Iron and Steel.



277. METALLURGICAL COLLOQUIUM. One hour a week during the second term is given to informal discussion of research and other work being done in the department, and to other topics of metallurgical interest.—Professor Stansfield.

278. METALLURGICAL CALCULATIONS AND DESIGN. The calculation of furnace charges and efficiencies, and the designing of metallurgical furnaces and plants. Two periods per week in the library and drafting room during the second term.—Professor Stansfield.

279. METALLURGICAL ANALYSIS. In this course the student is enabled to acquire dexterity in the modern commercial methods of analyzing ores and ferrous and non-ferrous alloys, taking into consideration the need of speed and reasonable accuracy. Instruction is given in the essential features of the methods employed and in fitting up a works' laboratory. One lecture and one laboratory period per week during the second term.—Mr. Roast.

280. METALLOGRAPHY. A course of lectures on the fundamentals of metallography, including the heat-treatment of steel and the standardization of the common non-ferrous alloys. One lecture a week during the first term, for Metallurgical students.—Mr. Roast.

281. METALLOGRAPHIC LABORATORY. Laboratory instruction and practice in preparing and studying specimens of iron, steel, bronze, brass and babbitt metal for microscopic examination, and in the heat treatment of steel and the methods of thermal analysis. One laboratory period per week during the first term, for Metallurgical students.—Mr. Roast.

282. METALLOGRAPHY AND LABORATORY. A short course of lecture and laboratory instruction, covering the essential features of theoretical and practical metallography. One lecture and one laboratory period per week during one-half of the first term, for Chemical Engineering students.—Mr. Roast.

283. METALLURGICAL CALCULATIONS. A course resembling number 265 but adapted to the requirements of the Fourth Year Mining students. One lecture a week during the session.—Professor Stansfield.

284. METALLURGICAL LABORATORY for Mining students. One period per week during the second term, arranged to illustrate lecture courses 262 and 271.—Professors Stansfield and Sproule.



## EXTENSION COURSES

A course of lectures and laboratory instruction in Metallography is given in the evening by Mr. Roast and Mr. Pascoe.

A course of lectures and laboratory instruction in Commercial Metallurgical Analysis is given in the evening by Mr. Roast.

Courses of lectures and laboratory instruction in General Metallurgy and in Fire-Assaying are given in the evening by Professor Sproule.

For particulars, see Announcement of Extension Courses.

## MINING AND METALLURGICAL SOCIETY

See page 334.

## RESEARCH FELLOWSHIPS AND GRADUATE COURSES

One or more research fellowships are usually offered to graduate students in Metallurgical Engineering.

## Courses for the Degree of Master of Engineering

Graduate Courses are offered in Advanced Metallurgy, Electro-Metallurgy, Metallurgical Analysis and Metallography. For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

## DEPARTMENT OF MINING ENGINEERING

PROFESSORS:— $\left\{ \begin{array}{l} \text{WILBERT G. McBRIDE.} \\ \text{JOHN W. BELL.} \end{array} \right.$

ASSISTANT PROFESSOR:—OSBURN NICHOLSON BROWN.

DOUGLAS RESEARCH FELLOW:—WALTER D. STOBART.

DAWSON RESEARCH FELLOW:—JAMES B. REDPATH.

HARRINGTON RESEARCH FELLOW:—\_\_\_\_\_.

## Third Year.

291. MINING ENGINEERING. *The principles and practice of mining.*—Introductory, simple mining methods, excavation, explosives and blasting, rock drills, coal cutters, gold washing and dredging, hydraulic mining, quarrying, etc. Two lectures per week in first term. This course is continued in the Fourth Year. (See 297.)—Professor McBride.

292. ORE DRESSING. *The theory and practice of ore dressing.*—The forms in which ores occur and the effect of mixture, impurity, etc.; the theoretical considerations affecting mineral separations; the mechan-



ical operations involved; crushing, sizing and dressing machinery—breakers, stamps, rolls, screens, jigs, vanners, tables, flotation apparatus, washers, magnetic separators, etc. Two lectures per week in the second term. This course is continued in the Fourth Year. (See 300.)—Professor Bell.

295. CRUSHING MACHINERY. This is the first half of course 292 and is taken by students in Chemical Engineering as well as by Mining and Metallurgical students. Two lectures per week in first term.—Professor Bell.

*Text-books:*—H. C. Hoover's Principles of Mining; Taggart's Handbook of Ore Dressing; and Peele's Mining Engineer's Handbook.

#### Fourth Year.

293. MINE MAPPING. The calculations and plotting of mine surveys. One afternoon per week in the first term.—Professor Brown.

297. MINING ENGINEERING. *The principles and practice of mining.*—Prospecting, artesian and oil wells, diamond drilling, open cut mining, shaft sinking, underground development and methods of mining, timbering, hauling, hoisting, pumping, lighting, ventilating, etc.; mine accidents and their prevention; general arrangement of plant, stores and dwellings; administration and industrial relations; examination and valuation of mines and mine reports. Three lectures a week.—Professors McBride and Brown.

298. MINING DESIGN. Practical problems in calculation of the grade and tonnage of ore bodies, methods of mining, hoisting, draining, ventilation, surface plant and equipment, metallurgical treatment and organization. Two drafting-room periods in the second term.—Professors McBride, Bell, and Brown.

300. ORE-DRESSING. Gold and silver milling, amalgamation, cyaniding, flotation, etc., concentration plants, coal breakers and washers, general conclusions regarding plant design and lay-out.

Two lectures a week—Professors Bell and Brown.

301. MINING COLLOQUIUM. One hour a week in the second term is given to the presentation and discussion of papers on the work being done in the department and to other matters relating to mining and ore-dressing. Students are required to take the leading part in these exercises.

305. ORE-DRESSING LABORATORY. One morning per week in the first term is given to the ore-dressing laboratories, and certain typical operations are carried out. This course is for Metallurgical students.



306. ORE-DRESSING LABORATORY AND THESIS WORK. In the second term one whole day and one additional morning per week are given to work in the laboratory and to the preparation of a thesis to be filed in the departmental library, and, when suitable, published.

The subjects available for thesis work are very numerous, and range from purely theoretical investigation in crushing, screening, classification, concentration, flotation, etc., to the experimental determination of the best methods for the treatment of particular ores. Different lots of ore are available in sufficient quantities for work on a comparatively large scale. New ores are constantly being secured.

*Text-books:*—In addition to the text-books already specified for the Third Year, students are required to provide themselves with Hamilton's Manual of Cyanidation. In addition to using these formal text-books, students are required to make frequent use of the works named below:—Hager's Oil Field Practice; Donaldson's Practical Shaft Sinking; Brinsmade's Mining Without Timber; Timbering of Metalliferous Mines, by J. F. Downey; Ketchum's Design of Mine Structures; Peele's Compressed Air Plant; Richards and Locke's Text-book of Ore-Dressing; Rickard's Sampling and Estimation of Ore in a Mine; Julian and Smart's Cyaniding Gold and Silver Ores; Megraw's Details of Cyanide Practice; Hoover's Concentrating Ores by Flotation; Prochaska's Coal Washing; The Coal and Metal Miners' Pocket-book; Mitke's Mining Methods; Young's Working of Unstratified Mineral Deposits.

#### RESEARCH FELLOWSHIPS AND GRADUATE COURSES

Special courses of instruction are offered to graduate students in mining and ore-dressing. (See page 523.) There are three endowed Research Fellowships in the gift of the Mining Department. These are assigned to graduates of the Department who show particular aptitude for advanced work.

#### LABORATORIES

The specific laboratory instruction in mining subjects proper begins in the Third Year, with courses in assaying and elementary metallurgy. In the Fourth Year this work is elaborated, the general method of instruction being first to conduct a limited number of typical operations, and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make written reports. In this work he is guided by the professors and fellows, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of certain



typical operations and makes at least one original investigation and at the same time gains a fair general experience of many of the important methods in use.

#### ILLUSTRATIONS, MUSEUMS, SOCIETIES, ETC.

In addition to the usual projection apparatus and a collection of over two thousand lantern slides, the Department has a standard motion picture projector and has made arrangements with the U.S. Bureau of Mines and other sources whereby several large series of mining films are available for class use. There is also a good departmental library, including selected trade catalogues, etc.

The McGill University Mining and Metallurgical Society meets at stated periods to hear and discuss papers on mining and correlated subjects given by men prominent in the industry. The Society has been made a students' section of the Canadian Institute of Mining and Metallurgy and its undergraduate members are therefore student members of the Institute, and receive its publications. Papers read before the Mining Society or submitted as Summer Essays may be entered in competition for all students' prizes offered by the Canadian Institute of Mining and Metallurgy, or the Engineering Institute of Canada. They will not be published unless the consent of all interested persons is first secured.

#### FIELD SCHOOL IN MINING

294. The summer vacation field class, instituted in 1898, is now a fixed part of the course. All students in Mining Engineering are required to attend this class at the end of the Third Year.

The work will be confined to an intensive study of one or more districts with, if conditions permit, visits to nearby districts. The student will be guided by members of the staff and will be required to work in a mine or ore-dressing plant for at least two months. He will also be required to submit his notes at the beginning of the Fourth Year and an essay on some phase of the work.

#### Courses for the Degree of Master of Engineering

Graduate Courses are offered in Mining Engineering, Works Organization and Management, Settling of Finely Divided Minerals in Water, Filtration in Ore-Dressing and Cyanidation, Cyanidation of Gold and Silver Ores, Theory and Practice of Flotation.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.



## DEPARTMENT OF PHYSICAL EDUCATION

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.

ATHLETIC MANAGER:—D. S. FORBES.

TRACK COACH AND ASS'T PHYSICAL DIRECTOR:—F. M. VAN WAGNER.

ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

In order to promote as far as possible the physical welfare of the student body, all first and second year students, and all students of other years, coming to the University for the first time, are required to pass a physical examination. Students of all years who wish to engage in athletic activities are also required to be physically examined. The hours for this examination are announced at registration.

At the time of examination each student is asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow unless debarred for medical reasons, in which case he is given a further choice among other recognized but less strenuous forms of exercise or does gymnasium work as the case may require.

Physical education is compulsory for all students of the first two years. Two hours per week are devoted to it.\*

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training at the option of the Director.

Unexcused absences up to one-eighth of the required number of periods are allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth disqualify a student. Such students are required to take extra gymnasium class work to the satisfaction of the Director, either by taking a supplemental school in September or by repeating the course in full.

No student in default is allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees, the Director furnishes to the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no

\* NOTE.—Owing to lack of accommodation this requirement is suspended for the session 1931-32.



Diploma for a degree is issued to any such candidate except by express direction of Corporation.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled are allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, is considered sufficient ground to disqualify a student from engaging in athletic contests.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, and for this time, only when requisitioned for by the Department. A leaflet and handbook concerning this service and the general work of the Department, together with the regulations governing athletics, are distributed at the opening of the session.

#### DEPARTMENT OF PHYSICS

DIRECTOR:—A. S. EVE.

PROFESSORS:—  
                                   { H. T. BARNES.  
                                   { L. V. KING.  
                                   { A. N. SHAW.  
                                   { D. A. KEYS.  
                                   { J. S. FOSTER.

ASSOCIATE PROFESSOR:—H. E. REILLEY.

ASSISTANT PROFESSOR:—W. H. WATSON.

LECTURER IN ASTRO-PHYSICS:—A. V. DOUGLAS.

DEMONSTRATORS:—  
                                   { D. R. McRAE.  
                                   { D. M. ROBERTSON.  
                                   { R. L. THORNTON.  
                                   { A. H. SNELL.  
                                   { W. K. DUNN.  
                                   { W. LYONS.

INSTRUCTOR IN LABORATORY TECHNIQUE:—H. T. PYE.

#### First Year (Architecture).

GENERAL COURSE. (Arts and Science 1.) Two hours Wednesday and Friday at 2 p.m.—Professor Keys.

*Text-book*:—Kimball's College Physics (Holt).



LABORATORY COURSE. (Arts and Science 1.) Two hours per week—2-4 Tuesday or 4-6 Wednesday.—Professor Keys and Demonstrators.

*Text-book*:—Laboratory Manuscripts (Renouf Pub. Co.).

#### First Year.

311. HEAT, SOUND AND LIGHT. (Arts and Science 2.) Two hours per week and weekly voluntary tutorial class.—Professor Shaw.

*Text-book*:—Duncan & Starling's Heat, Light and Sound (Macmillan).

312. LABORATORY COURSE. (Arts and Science 2.) Two hours per week. See time-table of sections.—Professor Keys and Demonstrators.

*Text-book*:—Laboratory Manuscripts, Barnes & Wheeler (Renouf Pub. Co.).

#### Second Year.

315. ELECTRICITY AND MAGNETISM. (Arts and Science 3A.) Two hours per week.—Dean Eve.

316. LABORATORY COURSE. (Arts and Science 3A.) Two hours per week.—Professor Keys and Demonstrators.

*Text-books*:—Hadley's Magnetism and Electricity for Students (1926 ed. Macmillan). Laboratory Manuscripts (Renouf Publishing Co.).

#### Third Year.

318. ELECTRICITY. (Arts and Science 6C.) Elementary electron theory, molecular physics and applications. Two hours per week; second term. For students in Third Year Electrical Engineering.—Professor Keys.

*See also course in Engineering Physics, page 287; and Physics, Announcements of the Faculties of Arts and Science and of Graduate Studies and Research.*



## DEPARTMENT OF SURVEYING AND GEODESY

ASSOCIATE PROFESSOR:—A. J. KELLY.

ASSISTANT PROFESSOR:—JAMES WEIR.

This course is designed to give the student a theoretical and practical training in the methods of plane and geodetic surveying, in the field work of engineering operations, and in practical astronomy in its application to geodesy. The course is divided as follows:—

**Second Year.**

346. SURVEYING. Chain and angular surveying; the construction adjustment, use and limitations of the transit, level, micrometer, compass and minor field and office instruments; railway circular and transition curves; planimeter and pantograph; general topography; levelling; contour surveying; stadia surveying; photographic surveying; land systems of the Dominion and provinces.—Professor Kelly.

*Text-book:*—Elements of Surveying, by Davis, Foote and Rayner.

347. FIELD WORK. (1) Compass and chain, compass and micrometer, and chain surveying.

(2) Differential, profile, topographic and quantity levelling.

(3) Azimuth and deflection angle traversing, accurate methods of angle measurement, and stadia surveying.

348. MAPPING. Drafting from field notes of chain and stadia surveys; plotting topographical features; tinting maps with water-colours; plotting photographic surveys.

**Third Year.**

351. MAP PROJECTIONS. Graphical determination of spherical triangles; spherical projections, and the construction of maps. Alternative with Sanitary Science (82).—Professor Weir.

*Text-book:*—Hinks' Map Projections.

352. SURVEYING. Theory and use of instruments; hydrographic surveying; the use of the plane table; mine surveying; barometric and trigonometric levelling; elements of practical astronomy.—Professor Kelly.

*Text-book:*—Surveying, Theory and Practice, by Davis, Foote and Rayner.

*Reference book:*—Durham's Mine Surveying.



353. SURVEYING. Theory and use of instruments; the use of the plane table; mine surveying; hydrographic surveying; barometric and trigonometric levelling; elements of geodetic surveying; elements of practical astronomy.—Professor Weir.

*Text-books:*—Breed and Hosmer's Principles and Practice of Surveying, Vol. II; Hosmer's Practical Astronomy.

354. FIELD WORK. (1) The adjustments of the instruments; (2) the preliminary, topographic and location surveys for a railway, including simple, compound, transition and vertical curves, profile levelling, cross-sectioning for construction, and plotting of field notes; (3) a topographic survey with the stadia transit and plane table; (4) a hydrographic survey of a river channel, including measurement of discharge; (5) a survey at night illustrating underground methods; (6) astronomical observations with engineer's transit.

#### Fourth Year.

359. GEODESY. The determination of time, latitude, longitude and azimuth; figure of the earth, measurements of base lines and triangulation systems; adjustment and reduction of observations.—Professor Weir.

*Text-book:*—Hosmer's Geodesy.

361. FIELD WORK. (1) Determination of latitude, (a) by transit and sextant observations of Polaris, (b) by zenith telescope, (c) by noon observations with transit and sextant; (2) determination of azimuth, (a) by equal altitude observations of the sun, (b) by observations of Polaris, (c) by observation of a circumpolar star with engineer's transit, (d) by means of solar attachments; (3) determination of time, (a) by equal altitude observations of the sun with sextant and transit, (b) by observations of the meridian passage of stars with astronomical transit; (4) determination of longitude by clock comparison; (5) base line measurements; (6) precision levelling; (7) measurement of angles by geodetic methods.

360. GEODETIC LABORATORY. The following determinations of the constants and errors of surveying instruments are made in the geodetic laboratory by the Fourth Year students in the Civil Engineering course:—Measurement of (1) magnifying power, (2) eccentricity of circles, (3) inclination error in astronomical transits by nadir observations; determination of (1) gravity by means of the reversible pendulum, (2) errors of run of theodolite microscopes, (3) constants of steel tapes, (4) scale value of level vials, (5) collimation error of astronomical



transits by fixed collimators and by nadir method; investigation of the error of graduation of (1) steel bars, (2) steel tapes, (3) transit circles, (4) the testing of aneroid barometers.

See also page 354.

#### FIELD WORK

Field work is required of all students entering the Second Year, of students entering the Third Year in the courses of Civil and Mining Engineering, and of students entering the Fourth Year course in Civil Engineering. The work will begin in 1932 on April 28th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties who cannot attend the above courses in Field Work, must attend Special Summer Schools, details of which are given on page 289.

All students are required to keep complete field notes, and to prepare maps, sections and estimates for their own surveys. This office work is done principally during the regular summer school session.



### REGULATIONS CONCERNING PREREQUISITE SUBJECTS, STANDING AND PROMOTION

(1) Students proceeding to a degree are classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their course, or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they had failed. Conditioned Undergraduates are those who have failed to remove all of their conditions as above.

(2) No student proceeding to a degree is allowed to take any subject, unless he has previously passed, or secured exemption in, all prerequisite subjects.

(3) No Conditioned Undergraduate is permitted to take any Third or Fourth Year work until all First and Second Year subjects have been passed. The Faculty may, however, waive this rule in special cases on recommendation of the Committee on Registration, Standing and Promotion.

(4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the Committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the head of each department concerned, and that their courses are approved by the Committee on Registration, Standing and Promotion.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he will not be given credit for subjects taken in contravention of the prerequisite rule, until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.

(7) Partial students are not eligible to take supplemental examinations.

(8) No Fourth Year student is allowed a supplemental or special supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.



## PREREQUISITE AND CONCURRENT SUBJECTS\*

See also paragraph (3), page 108

No.	YEAR	SUBJECT	PREREQUISITE	CON- CUR- RENT
1	II	Arch. Design A.....	18, 33, 38....	6
2	III	" " B.....	1.....	7
3	IV	" " C.....	2.....	8
4	V	" " D.....	3.....	
5	I	Elements of Architecture.....		
6	II	History of Art.....		
7	III	Theory of Design.....	1.....	
8	IV	Theory of Planning.....	1.....	
9	III or IV	Ornament and Decoration.....	33, 39.....	
10	III or IV	" " ".....	33, 39.....	
11	III or IV	" " ".....	33, 39.....	
12	III or IV	" " ".....	33, 39.....	
14	II	History of Arch. (Classic).....		
15	III or IV	" " (Mediaeval).....		
16	III or IV	" " (Renaissance).....		
17	V	" " (Modern).....		
18	I	Architectural Geometry I.....		
19	II	Arch. Geometry II.....	18.....	
22	IV	Hygiene of Buildings.....		
23	IV or V	Heating and Ventilation.....		
23A	I	Building Construction I.....		
24	II	Building Construction II.....		
25	II	Building Details.....		24
26	II	Architectural Engineering I.....		26
27	II	Arch. Engineering I (Draughting).....		
28	III or IV	Architectural Engineering II A.....	26.....	28
29	III or IV	Arch. Eng. II A (Draughting).....	26.....	
30	III or IV	Architectural Engineering II B.....	26.....	30
31	III or IV	Arch. Eng. II B (Draughting).....	26.....	
32	V	Professional Practice.....	24.....	5
33	I	Architectural Drawing.....		
34	III	Building Materials.....		
35	III	Architectural Drawing ..		
36	IV	" ".....		
37	V	" ".....		
38	I	Freehand Drawing.....		
39	II	" ".....	38.....	
40	III	" ".....	39.....	
41	IV	" ".....	40.....	
42	IV	Modelling.....	42.....	
43	V	" ".....		
Arts 1	I	Algebra.....		
" 1	I	Geometry and Trigonometry.....		
" 1	I	Physics.....		
" 1	I	Physics Laboratory.....		
46	II	Architectural Essay.....		
47	III	" ".....		
48	IV	" ".....		
49	V	" ".....		
50	II, III, IV & V	Summer Work.....		
51	I	General Chemistry.....		52
52	I	" " Lab.....		51
53	II	General Chemistry.....	51, 52, 311....	
54	III	Inorg. Qual. Anal.—Summer School (Chem. Eng. and Met. Eng. Students).....	51, 52.....	55
55	III	Inorg. Qual. Anal. Lab.—Summer School (Chem. Eng. and Met. Eng. Students).....	51, 52.....	54

\*Prerequisite subjects are those which, in the opinion of the Faculty, must be mastered before the subjects to which they are prerequisite can be intelligently studied.  
Concurrent subjects are related subjects which should be studied in the same session.



No.	YEAR	SUBJECT	PREREQUISITE	CON- CUR- RENT
56	III	Organic Chemistry .....	53 .....	57
57	III	" " Lab. ....	53 .....	56
58	III	Physical Chemistry .....	53 .....	
59	III	Inorg. Qual. Anal. ....	53 .....	60
60	III	" " Lab. ....	53 .....	59
61	III	Inorg. Quant. Anal. and Lab. (Chem. Eng.) ..	53 .....	
62	III	" " (Met. Eng.) ..	53 .....	
63	IV	Chemical Engineering .....	58 .....	
65	IV	Advanced Organic Chem. and Laboratory ..	56, 57 .....	
66	IV	Physical Chemistry .....	58 .....	
66a	IV	Physical and Colloid Chem. Lab. ....	.....	
67	IV	Inorg. Lab. ....	61, 62 .....	
68	IV	Industrial Chemistry, Inorganic. ....	61, 62 .....	
69	IV	Industrial Chemistry, Organic. ....	56, 57 .....	
70	IV	Applied Electro-Chem. ....	53 .....	
71	IV	Inorg. Quant. Anal. (Mining Students) ..	59, 60 .....	
72	IV	Adv. Inorg. Chemistry .....	58 .....	
74	IV	History of Chemistry .....	53, 56 .....	
75	IV	Colloid Chemistry .....	56, 57, 58, 59, 60 ..	
80	I	Engineering Problems .....	.....	
81	II	Materials of Construction .....	.....	
82	III	Sanitary Science .....	.....	
83	II	Mechanics .....	194 .....	198
85	III	Highway Engineering .....	.....	
86	III	Mechanics .....	83, 198 .....	
87	III	Strength of Materials .....	83, 198 .....	
88	III	" " Lab. ....	.....	87
89	III	Foundations .....	.....	87
90	III	Structural Engineering .....	.....	87
92	III	Railway Engineering .....	83, 346, 347, 348 ..	
93	III	" " .....	83, 346, 347, 348 ..	92
94	IV	Theory of Structures .....	87 .....	
95	IV	Strength of Materials .....	87 .....	
96	IV	Bridge Design .....	90 .....	94
96a	IV	" " .....	90 .....	94
97	III & IV	Hydraulics .....	83 .....	
98	III & IV	" " Lab. ....	.....	97
99	IV	" " Machines .....	.....	97
100	IV	Hydraulics and Lab. (Short Course) ..	83 .....	
101	IV	Municipal Engineering .....	97, 98 .....	
102	IV	Water Supply & Sewerage .....	82, 97, 98 .....	
103	IV	Waste Disposal .....	.....	
104	IV	Civic Administration .....	.....	
111	III & IV	Elements of Elec. Eng. ....	198, 315, .....	
112	III & IV	Elec. Eng. Lab. (Elementary) .....	.....	111
113	III	Electrical Engineering .....	198, 315 .....	
114	III	Elec. Engineering Lab. ....	.....	113
117	IV	Electrical Engineering .....	113, 114, 201 .....	
118	IV	Elec. Eng. Lab. (Elec. Eng. Students) ..	113, 114 .....	117
120	IV	Elec. Light and Power Distribution .....	.....	
121	IV	Electric Traction .....	.....	117
122	IV	Electrical Designing .....	113 .....	117
123	IV	Applications of Electricity .....	113 .....	117
124	IV	Elec. Measurements and Lab. ....	113 .....	
125	IV	Communication Engineering .....	201, 113 .....	
131	II	Engineering Reports .....	.....	
132	II	Summer Reading .....	.....	
133	III	Summer Reading or Essay .....	.....	
134	IV	Summer Essay .....	.....	
141	III	Geology, General .....	.....	
142	III	Mineralogy .....	53 .....	
143	III	Mineralogy, Determinative .....	53 .....	
146	IV	Petrography and Lab. ....	141 .....	
147	IV	Practical and Field Geology .....	141 .....	



No.	YEAR	SUBJECT	PREREQUISITE	CON- CUR- RENT
148	IV	Ore Deposits .....	141 .....	147
149	IV	Geology of Canada .....	141 .....	
150	IV	Optical Mineralogy and Crystallography ..	141, 142, 143 ..	
153	IV	Geology Fieldwork (with 294) .....	141, 142, 143 ..	
170	I	History of Science .....		
171	III	Elements of Political Economy .....		
172	IV	Canadian Economic Problems .....	171 .....	
175	IV	Engineering Law .....		
191	I	Plane Trigonometry .....		
192	I	Algebra .....		
193	I	Mensuration .....		
194	I	Mechanics .....		
197	II	Analytic Geometry .....		
198	II	Calculus .....	192 .....	
201	III	Calculus .....	198 .....	
218	II	Mechanics of Machines .....	191, 192, 194 ..	
223	III	Mech. Eng. Lab. (Elec. Eng. Students) ..	83, 218 .....	226
224	III	Mechanics of Machines .....		87, 231
225	III	Machine Design .....		228
226	III	Mech. Eng. (General Course) .....		226, 227
227	III	" " (Mech. Eng. Students) .....		
228	III	" " Lab. ....		
229	III	Thermodynamics .....	198 .....	
231	III	Mech. Drawing (Mech. Eng. Stud.) ..		225
233	III	Summer School (Mech. Eng. Students) ..		
236	III	Machine Shop Work .....		
237	III	Industrial Engineering .....		
238	III	Accounting .....		
240	IV	Mechanics of Machines .....	224 .....	
241	IV	Designing .....	225, 231 .....	242
242	IV	Mach. Design (Mech. Students) .....	225 .....	
243	IV	Mach. Design (Elec. Students) .....	225 .....	
244	IV	Power Plant Design .....	227 .....	
247	IV	Heat and Ventilation of Buildings .....	227 .....	244
249a	IV	Mech. Eng. Lab. ....	227, 228 .....	
251	IV	Mech. Eng. Lab. (alt.) .....	227, 228 .....	
252	IV	Thermodynamics .....	228, 229 .....	
253	IV	Machine Shop Work .....	236 .....	
254	IV	Industrial Engineering .....	238 .....	
257	IV	Experimental Administration .....		252
258	IV	Industrial Engineering .....	227, 228 .....	249
261	III	Elem. Metallurgy and Laboratory .....		
262	III	Elem. Metal. (Chem. & Mining Eng. Students) .....		
263	III	Fire Assaying .....		264
264	III	Fire Assaying Laboratory .....		263
265	III	Metall. Calculations .....		261
267	IV	Metall. Field School .....		
271	IV	Metallurgy (General) .....	261 or 262 .....	
272	IV	" (Advanced) .....	261 or 262 .....	271
273	IV	Fire Assay. & Lab. (Chem. Eng. Stud.) ..	262 .....	
274	IV	Metall. Lab. and Thesis .....	261 .....	271
275	IV	Electro-Metallurgy and Lab. ....	261 or 262 .....	271
277	IV	Metall. Colloquium .....	261 .....	271
278	IV	Metall. Calculations and Design .....	265 .....	272
279	IV	Metall. Analysis .....	61, 62 .....	67
280	IV	Metallography .....		
281	IV	Metallographic Lab. ....		
282	IV	Metallog. & Lab. (Chem. Eng. Students) ..		
283	IV	Metall. Calc. Mining Students .....	262 .....	271
284	IV	" Lab. ....	262 .....	271
291	III	Mining Engineering .....		
292	III	Ore Dressing .....		142, 226



No.	YEAR	SUBJECT	PREREQUISITE	CON- CUR- RENT
293	IV	Mine Mapping.....		
294	III	Mining Field School.....	141.....	
295	III	Crushing and Grinding Machinery.....		226
297	IV	Mining Engineering.....	226, 291.....	
298	IV	Mining Design.....	81, 226.....	297, 300
300	IV	Ore Dressing and Milling.....	292.....	
301	IV	Mining Colloquium.....		297, 300
305	IV	Ore Dressing Laboratory.....	292.....	300
306	IV	Ore Dressing Lab. (Thesis Work).....	264.....	
311	I	Physics.....		
312	I	Physical Laboratory.....		311
315	II	Physics.....	311.....	
316	II	Physical Laboratory.....	311.....	315
318	III	Physics.....	315.....	
340	I	Mechanical Drawing.....		
341	I	Descriptive Geometry.....		
342	I	Freehand Drawing.....		
343	I	Lettering.....		
344	II	Mechanical Drawing.....	340.....	
345	II	Descriptive Geom. and Perspective.....	341.....	
346	II	Surveying.....	191 or Arts 1.....	
347	II	Surveying Fieldwork.....		
348	II	Mapping.....		
351	III	Map Projections.....		
352	III	Surveying (Miners).....	346, 347.....	
353	III	Surveying (Civils).....	346, 347.....	
354	III	Surveying Fieldwork.....	346, 347.....	
359	IV	Geodesy.....	353.....	
360	IV	Geodetic Laboratory.....		359
361	IV	Geodetic Fieldwork.....	353, 354.....	



### CONVERSE OF PREREQUISITE SUBJECTS

No.	Year	PREREQUISITE SUBJECTS	Numbers of Subjects to which subjects in 3rd column are prerequisite
1	II	Arch. Design A . . . . .	
2	III	" " B . . . . .	2, 7, 8
3	IV	" " C . . . . .	3
4	V	" " D . . . . .	4
5	I	Elements of Architecture . . . . .	
6	II	History of Art . . . . .	
7	III	Theory of Design . . . . .	
8	IV	Theory of Planning . . . . .	
9	III or IV	Ornament and Decoration . . . . .	
10	III or IV	" " . . . . .	
11	III or IV	" " . . . . .	
12	III or IV	" " . . . . .	
14	II	History of Arch. (Classic) . . . . .	
15	III or IV	" " (Mediaeval) . . . . .	
16	III or IV	" " (Renaissance) . . . . .	
17	V	" " (Modern) . . . . .	
18	I	Architectural Geometry I . . . . .	19
19	III	Architectural Geometry II . . . . .	1
22	IV	Hygiene of Buildings . . . . .	
23	IV or V	Heating and Ventilation . . . . .	
23A	I	Building Construction I . . . . .	
24	II	Building Construction . . . . .	32
25	II	Building Details . . . . .	
26	II	Architectural Eng. I . . . . .	28, 29, 30, 31
27	II	Architectural Eng. I (Drafting) . . . . .	
28	III or IV	Architectural Eng. II A . . . . .	
29	III or IV	Architectural Eng. II A (Drafting) . . . . .	
30	III or IV	Architectural Eng. II B . . . . .	
31	III or IV	Architectural Eng. II B (Drafting) . . . . .	
32	V	Professional Practice . . . . .	
33	I	Architectural Drawing . . . . .	1, 9, 10, 11, 12.
34	III	Building Materials . . . . .	
35	III	Architectural Drawing . . . . .	
36	IV	" " . . . . .	
37	V	" " . . . . .	
38	I	Freehand Drawing . . . . .	1, 39
39	II	" " . . . . .	9, 10, 11, 12, 40
40	III	" " . . . . .	41
41	IV	" " . . . . .	
42	IV	Modelling . . . . .	43
43	V	" " . . . . .	
46	II	Arch Essay . . . . .	
47	III	" " . . . . .	
48	IV	" " . . . . .	
49	V	" " . . . . .	
50	II III IV & V	Summer Work . . . . .	
Arts I	I	Algebra . . . . .	
" I	I	Geometry and Trigonometry . . . . .	346
" I	I	Physics . . . . .	
" I	I	Physics Laboratory . . . . .	2
51	I	General Chemistry . . . . .	53, 54, 55
52	I	" " Lab. . . . .	53, 54, 55
53	II	General Chemistry . . . . .	56, 58, 59, 61, 62. 70, 74, 142, 143,
54	III	Inorg. Qual. Anal. (Summer Sch.) (Chem. Eng. and Met. Eng.) . . . . .	
55	III	Inorg. Qual. Anal. Lab. (Summer Sch.) (Chem. Eng. and Met. Eng.) . . . . .	
56	III	Org. Chemistry . . . . .	65, 69, 74, 75
57	III	" " Lab. . . . .	65, 69, 75
58	III	Physical Chem. . . . .	63, 66, 72, 75
59	III	Inorg. Qual. Anal. . . . .	71, 75
60	III	" " Lab. . . . .	71, 75
61	III	" Quant. Anal. . . . .	67, 68, 279



No.	Year	PREREQUISITE SUBJECTS	Numbers of Subjects to which subjects in 3rd column are prerequisite
62	III	Inorg. Quant. Anal. Lab.....	67, 68, 279
63	IV	Year Subjects.....	
to 75	I	Engineering Problems.....	
80	II	Mat. of Constrn.....	298
81	III	Sanitary Science.....	102
82	II	Mechanics.....	86, 87, 92, 97, 100, 224
83	III	Highway Engineering.....	
85	III	Mechanics.....	
86	III	Str. of Materials.....	94, 95
87	III	" " Lab.....	
88	III	Foundations.....	
89	III	Structural Engineering.....	96, 96A
90	III	Railway Engineering.....	
92	III	" " .....	
93	III	" " .....	
94	IV	Year Subjects.....	
to 96	III & IV	Hydraulics.....	101, 102
97	III & IV	" " Lab.....	101, 102
98	IV	Year Subjects.....	
99	III & IV	Elem. Elec. Eng.....	
to 104	III & IV	Elec. Eng. Lab. (Elementary).....	
111	III	Elec. Eng.....	117, 118, 122, 123, 124,
112	III	Elec. Eng.....	125
113	III	Elec. Eng. Lab.....	117, 118
114	IV	Year Subjects.....	
117	II	English Summer Reading.....	
125	III	Summer Reading.....	
132	IV	Year Subject.....	
133	III	Geology, General.....	146, 147, 148, 149, 152,
134	III	Mineralogy.....	153, 294
141	III	Mineralogy (Determinative).....	147, 151, 152, 153
142	IV	Year Subjects.....	147, 152, 153
143	I	History of Science.....	
146	III	Elements of Political Economy.....	172
to 153	IV	Canadian Economic Problems.....	
170	IV	Eng. Law.....	
171	I	Plane Trigonometry.....	218, 346
172	I	Algebra.....	198, 218
175	I	Mensuration.....	
191	I	Mechanics.....	83, 218
192	II	Anal. Geometry.....	
193	II	Calculus.....	86, 87, 111, 113, 201,
194	III	Calculus.....	229
197	II	Mechanics of Machines.....	117, 124, 125
198	III	Mech. Eng. Lab. (Elec. Eng. Course).....	224
201	III	Mech. of Machines.....	240
218	III	Machine Design.....	241, 242, 243
223	III	Mech. Eng. (General Course).....	297, 298
224	III	" " (Mech. Eng. Students).....	244, 245, 246, 247, 249
225	III	" " Lab.....	249a, 257
226	III	Thermodynamics.....	249, 249a, 251, 257
227	III	Mech. Drawing.....	251
228	III	Summer School (Mech. Eng. Students).....	241
229	III	Machine Shopwork.....	252
231	III	Industrial Engineering.....	254
233	III		
236	III		
237	III		



No.	Year	PREREQUISITE SUBJECTS	Numbers of Subjects to which subjects in 3rd column are prerequisite
238	III	Accounting .....	253
240	IV	Year Subjects .....	
258			
261			
262	III	Elem. Metallurgy & Lab (Met. Eng. Stud'ts)	271, 272, 274, 275, 277
	III	Elem. Metall. (Chem. and Mining Eng. " )	271, 272, 273, 275, 283, 284
263	III	Fire Assaying .....	
264	III	Fire Assaying Lab. ....	306
265	III	Metal. Calculations .....	278
267	IV	Year Subjects .....	
284			
291			
292	III	Mining Eng. ....	297
293	III	Ore Dressing. ....	300, 305
294	IV	Mine Mapping. ....	
295	III	Mining Field School. ....	
297	III	Crushing and Grinding Machinery. ....	
and	IV	Year Subjects .....	
298			
300			
to	IV	Year Subjects .....	
306			
311			
312	I	Physics .....	53, 315, 316
315	I	Physical Lab. ....	
316	II	Physics .....	111, 113, 318
318	II	Physical Lab. ....	
340	III	Physics .....	124, 125
341	I	Mechanical Drawing. ....	344
342	I	Desc. Geom. ....	345
343	I	Freehand Drawing. ....	
344	II	Lettering. ....	
345	II	Mechanical Drawing. ....	
346	II	Desc. Geometry and Perspective. ....	
347	II	Surveying .....	92, 352, 353, 354
348	II	Surveying Fieldwork. ....	92, 352, 353, 354
351	II	Mapping .....	92
352	III	Map Projections .....	
353	III	Surveying (Miners) .....	
354	III	" (Civils) .....	359, 361
359	III	" Fieldwork. ....	361
to	IV	Year Subjects .....	
399			



## EXAMINATION TIME TABLES.

### I.—SUPPLEMENTAL EXAMINATIONS.

Supplemental examinations for all subjects of the First, Second and Third Years Engineering are held in September. A schedule of these examinations may be obtained from the Dean.

### II.—SESSIONAL EXAMINATIONS.

NOTE:—The following numbers correspond with the subjects in the prerequisite list and the departmental descriptions. Examinations begin at Nine A.M. and Two P.M., and normally last three hours.

TIME TABLE, FIRST TERM EXAMINATIONS (Subject to Revision).

DATE		FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
*January 11th	A.M.	.....	.....	62, 97-98, 201	67, 71, 75, 97-98, 359
" "	P.M.	.....	.....	291	273
*January 12th	A.M.	Arts, I (Math.)	197	86	104, 120, 149, 258, 280, 282
" "	P.M.	.....	.....	.....	150
*January 13th	A.M.	191	.....	9, 82, 295, 351	9, 100
" "	P.M.	.....	.....	58	172
*January 14th	A.M.	.....	.....	59, 92, 237	22, 70, 95, 103, 147
" "	P.M.	.....	.....	261, 262	68

\* Subject to change in 1932.



SECOND TERM EXAMINATION TIME TABLE (Subject to Revision)  
(First three years in Engineering and the whole course in Architecture)

DATE		FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH AND FIFTH YEARS
April 14th	A.M. P.M.	341, Arts 1 (Maths.) .....	345 .....	56, 85, 224, 238, 292, 318 .....	175 .....
April 15th	A.M. P.M.	80 .....	81 .....	90, 113 .....	23 .....
April 16th	A.M. P.M.	5, 51 52	53, 26 .....	30, 226, 227 223, 228	17, 30 .....
April 18th	A.M. P.M.	193 .....	346 .....	87 .....	32 ..
April 19th	A.M. P.M.	192 .....	315 .....	10, 88 .....	10 .....
April 20th	A.M. P.M.	194 .....	14, 316 .....	16, 265, 352 .....	4, 16 4
April 21st	A.M. P.M.	18 .....	198 .....	61, 141, 225 141	4 4
April 22nd	A.M. P.M.	Arts 1 (Physics) 311 .....	19, 218 .....	34, 171 .....	4 4
April 23rd	A.M. P.M.	23A, 312 .....	6, 83 .....	142, 229, 353 .....	4 4
April 25th	A.M. P.M.	..... .....	24 .....	58, 89, 111 263	4 4



SECOND TERM EXAMINATIONS (Subject to Revision)

DATE		FOURTH YEAR
April 25th	A.M.	111
April 28th	A.M.	175
April 29th	A.M. P.M.	67, 122, 244, 148 .....
April 30th	A.M. P.M.	63, 95, 121, 247, 272, 283 .....
May 2nd	A.M. P.M.	65, 125, 251, 253, 300 .....
May 3rd	A.M. P.M.	69, 94, 123, 271, 240, 254 .....
May 4th	A.M. P.M.	72, 101, 102, 249, 249a .....
May 5th	A.M. P.M.	66, 96, 96a, 242, 243, 275 297
May 6th	A.M. P.M.	74, 117, 257, 146 .....
May 7th	A.M. P.M.	99, 124, 278 .....

III.—LECTURE TIME TABLES.

Complete time tables for all lectures and laboratory work are bulletined in the Engineering Building.



## FACULTY OF MEDICINE

## HISTORICAL SUMMARY

(Faculty of Medicine)

## 1821-1931

- 1744 James McGill, born October 6th (Founder's Day). Died 1813.
- 1801-02 Royal Institution for Advancement of Learning contemplated by Provincial Act of Parliament.
- 1811 Will by James McGill leaving landed estate and £10,000 to Royal Institution for Advancement of Learning for founding a University.
- 1818 Royal Institution for Advancement of Learning incorporated. Montreal General Hospital opened on original site on St. Lawrence Street.
- 1821 Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College. Corner-stone of new Montreal General Hospital laid.
- 1822-24 Montreal Medical Institution organized as a Medical School by Officers of Montreal General Hospital. At opening lecture at No. 20 St. James Street on October 28, 1824, there were four teachers and twenty-five students.
- 1829 Estate of James McGill surrendered by residuary legatee. First meeting of Governors at Burnside House. Montreal Medical Institution "engrafted upon" McGill University as its Medical Faculty. First session of Faculty of Medicine.
- 1831 Medical Faculty petitioned Legislature for permission to grant degrees, and framed statutes to fulfil conditions of charter for same by order of Solicitor-General.
- 1832 Statutes approved and permission to confer degrees granted to Medical Faculty, and Professorships granted by Crown to Drs. Holmes, Caldwell, Robertson and Stephenson.
- 1833 First University degree conferred in Medical Faculty upon W. Logie.
- 1836-37 Faculty removed to building next to present Bank of Montreal.
- 1840 Faculty removed to St. George Street.
- 1842 Arts Building erected on University grounds, where medical lectures were held 1845-51.
- 1852 Faculty removed to Côté Street.
- 1855 Sir William Dawson appointed Principal.
- 1860 Geo. W. Campbell appointed Dean, serving until 1882.
- 1872 First independent Medical Faculty building on University ground.  
Graduation of William Osler.



- 1882 Geo. W. Campbell Memorial Fund for Medical Faculty (\$50,000); Leancoil Endowment Fund for Medical Faculty (Lord Strathcona, \$50,000).  
R. P. Howard appointed Dean.
- 1885 New laboratories erected in Medical Building (Lord Strathcona, \$100,000).
- 1889 Robert Craik appointed Dean—George Ross, Vice-Dean.
- 1893 Pathological Laboratory erected (John H. R. Molson, \$60,000);  
Chairs of Hygiene and of Pathology endowed (Lord Strathcona, \$100,000).  
Mrs. Mary Dow Endowment Fund presented to Medical Faculty (\$10,000).
- 1894 Royal Victoria Hospital opened (Lord Mount-Stephen and Lord Strathcona).
- 1895 Sir William Peterson appointed Principal.
- 1898-01 Medical Faculty Building reconstructed and enlarged with new laboratories, etc. (Lord Strathcona, \$100,000.)  
Joseph Morley Drake Chair of Physiology founded (\$25,000).  
Thomas G. Roddick appointed Dean.
- 1901 Alexandra Hospital for Infectious Diseases opened.
- 1907 Medical Building partly destroyed by fire.
- 1908 F. J. Shepherd appointed Dean.
- 1909-11 New Medical Building (as at present) erected. (Lord Strathcona, \$450,000.)
- 1911 Robert Reford endowment of Department of Anatomy (\$100,000).  
Arthur A. Browne Memorial Fund for Research established (\$10,000).  
Dr. James Douglas research fellowship in Pathology founded (\$25,000).
- 1912 Eddie Morrice Laboratory of Pharmacology opened (D. Morrice, \$14,000).  
James Cooper Endowment Fund established for Internal Medicine (\$60,000).
- 1913 Graduates of the Faculty of Medicine subscribed \$12,566 to meet fire loss.
- 1914 H. S. Birkett appointed Dean.  
No. 3 (McGill) General Hospital organized for Overseas service.  
New Foundling Hospital opened.
- 1916 Ross Memorial Pavilion (J. K. L. Ross), opened by H.R.H. Duke of Connaught.
- 1917 Geo. Ross Endowment Fund for Medical Faculty presented.



- 1919 Sir William Macdonald bequeathed \$500,000 to Medical Faculty.  
Faculty of Dentistry established. Osler Library (of the history of medicine and science) bequeathed to the Faculty of Medicine by Sir William Osler.
- 1920 Sir Arthur Currie appointed Principal.  
Dr. J. W. Scane appointed Assistant Dean.
- 1921 Centenary Celebration.  
Friends and Graduates of McGill donated \$4,000,000 to University.  
Province of Quebec donated \$1,000,000 to University.  
Rockefeller Foundation granted \$1,000,000 to Medical Faculty.  
F. G. Finley appointed Dean.
- 1922 Laboratories for Biological Sciences opened.  
Geo. E. Armstrong appointed Dean.  
New Outpatient Department erected at Royal Victoria Hospital.
- 1923 Pathological Institute erected.  
C. F. Martin appointed Dean.
- 1924 Rockefeller Foundation gave \$500,000 to Medical Faculty to establish University Clinic in Department of Medicine at Royal Victoria Hospital.  
Amalgamation of Western Hospital with the Montreal General Hospital.
- 1925 Erection of Royal Victoria-Montreal Maternity Pavilion.  
Roddick Memorial Gates opened.
- 1926 Closing of old Montreal Maternity Hospital.
- 1927 Sub-department of Industrial Medicine formed, with Industrial Clinic at the Montreal General Hospital. (Grant of \$25,000 from Metropolitan Life Insurance Company.)  
Inter-Hospital Commission formed for purposes of administration.
- 1929 Opening of new laboratory building for Experimental Surgery.  
Rockefeller Foundation gave \$85,000 for research in Surgery.



## OFFICERS AND MEMBERS OF THE FACULTY SINCE ITS ORIGIN

### DEANS

Dr. R. Robertson, official head of the Montreal Medical Institution, 1823, was followed by Dr. John Stephenson in 1829 as Registrar and official head of the Faculty up to 1842, when he was succeeded by Dr. A. F. Holmes with the title of Secretary.

A. F. HOLMES, 1854.

GEO. W. CAMPBELL, 1860.

R. P. HOWARD, 1882.

ROBERT CRAIK, 1889.

GEORGE ROSS (Vice-Dean), 1889.

THOMAS G. RODDICK, 1901.

FRANCIS J. SHEPHERD, 1908.

HERBERT S. BIRKETT, 1914.

F. G. FINLEY, 1921.

GEORGE E. ARMSTRONG, 1922.

C. F. MARTIN, 1923.

(J. W. SCANE, Assistant Dean, 1920-1922.)

### REGISTRARS

JOHN STEPHENSON, 1829.

ARCHIBALD HALL, 1842.

WILLIAM WRIGHT, 1864.

ROBERT CRAIK, 1869.

WILLIAM OSLER, 1877.

F. J. SHEPHERD, 1883 (Acting).

JAMES STEWART, 1884.

R. F. RUTTAN, 1891.

E. M. EBERTS, 1902.

(J. W. SCANE, Assistant Dean, 1920-1922.)

*Registrarship abolished—1923*

### SECRETARIES

J. C. SIMPSON, 1923.



## MEDICINE

*Chair of Medicine*  
(Founded 1824)

WILLIAM CALDWELL, 1824.  
WILLIAM ROBERTSON, 1833.  
ANDREW F. HOLMES, 1842.  
R. P. HOWARD, 1860.  
GEORGE ROSS, 1889.  
JAMES SEWART, 1893.

*Chair of Clinical Medicine*  
(Founded 1845)

JAMES CRAWFORD, 1845 and 1852.  
ROBT. L. MACDONNELL, 1849.  
STEPHEN C. SEWELL, 1850.  
R. P. HOWARD, 1856.  
DUNCAN C. MACCALLUM, 1860.  
JOSEPH M. DRAKE, 1872.  
GEORGE ROSS, 1872.  
RICHARD L. MACDONNELL, 1889.  
JAMES STEWART, 1891.

*Chair of Medicine and Clinical Medicine*  
(Founded 1907)*(Chair of Medicine since 1923)*

F. G. FINLEY, 1907-1924.  
H. A. LAFLEUR, 1907-1919.  
C. F. MARTIN, 1907.  
J. C. MEAKINS, Professor and Director, 1924.  
C. P. HOWARD, 1924.  
W. F. HAMILTON, 1924.

## SURGERY

*Chair of Surgery*  
(Founded 1824)

JOHN STEPHENSON, 1824.  
G. W. CAMPBELL, 1835.  
GEO. E. FENWICK, 1875.  
T. G. RODDICK, 1890.

*Chair of Clinical Surgery*  
(Founded 1840)

JAMES CRAWFORD, 1845.  
WILLIAM E. SCOTT, 1852.  
DUNCAN C. MACCALLUM, 1856.  
ROBERT CRAIK, 1860.  
GEORGE E. FENWICK, 1867.  
THOMAS G. RODDICK, 1876.  
JAMES BELL, 1894.

*Chair of Surgery and Clinical Surgery*  
(Founded 1907)*(Chair of Surgery since 1923)*

JAMES BELL, 1907-1911.  
GEO. E. ARMSTRONG, 1907-1923.  
J. A. HUTCHISON, 1913-1923.  
E. W. ARCHIBALD, Professor and Director, 1923.  
A. T. BAZIN, 1923.  
E. M. EBERTS, 1929.



## OBSTETRICS AND GYNÆCOLOGY

*Chair of Obstetrics*  
(Founded 1824)

WILLIAM ROBERTSON, 1824.  
JOHN RACEY, 1833.  
GEO. W. CAMPBELL, 1835.  
MICHAEL McCULLOGH, 1842.  
ARCHIBALD HALL, 1854.  
D. C. MACCALLUM, 1868.  
ARTHUR A. BROWNE, 1883.  
J. CHALMERS CAMERON, 1886.

*Chair of Gynæcology*  
(Founded 1883)

WILLIAM GARDNER, 1883.  
W. W. CHIPMAN, 1910.

*Chair of Obstetrics and Gynæcology*  
(Founded 1913)

W. W. CHIPMAN, 1913-1929.  
J. R. FRASER, 1929 Professor and Director.  
H. M. LITTLE, 1929.

## ANATOMY

## (Chair founded 1824)

JOHN STEPHENSON, 1824.  
OLIVER T. BRUNEAU, 1842.  
WILLIAM E. SCOTT, 1856.  
FRANCIS J. SHEPHERD, 1883.  
A. C. GEDDES, 1913.  
S. E. WHITNALL, 1919.

## CHEMISTRY

*Chair of Chemistry*  
(Founded 1824)

ANDREW F. HOLMES, 1824.  
ARCHIBALD HALL, 1842.  
WILLIAM SUTHERLAND, 1849.  
ROBERT CRAIK, 1867.  
GILBERT P. GIRDWOOD, 1879.  
R. F. RUTTAN, 1902.

*Chair of Practical Chemistry*  
(Founded 1872)

GILBERT P. GIRDWOOD, 1872.  
R. F. RUTTAN, 1894.

*Chair of Bio-Chemistry.*

A. B. MACALLUM, 1920.  
J. B. COLLIP, 1928.



## INSTITUTES OF MEDICINE

*Chair of Institute of Medicine*

(Founded 1824 and included the Department of Physiology,  
Histology and Pathology)

JOHN STEPHENSON, 1824.  
STEPHEN C. SEWELL, 1842.  
ROBERT L. MACDONNELL, 1845.  
WILLIAM FRASER, 1849.  
JOSEPH M. DRAKE, 1868.  
WILLIAM OSLER, 1874.

## PHYSIOLOGY

(Founded 1824—endowed 1897)

WESLEY MILLS, 1886.  
N. H. ALCOCK, 1911.  
G. R. MINES, 1914.  
JOHN TAIT, 1919.  
BORIS P. BABKIN (Research Professor), 1928.

## PATHOLOGY

(Founded 1892—endowed 1893)

J. GEO. ADAMI, 1892.  
H. OERTEL, 1919.

## PHARMACOLOGY

*Chair of Pharmacology and Therapeutics*

(Founded 1824)

ANDREW F. HOLMES, 1824.  
ARCHIBALD HALL, 1835.  
STEPHEN C. SEWELL, 1842.  
A. HALL, 1849.  
WILLIAM WRIGHT, 1854.  
JAMES STEWART, 1883.  
A. D. BLACKADER, 1891.

*Chair of Pharmacology*

H. G. BARBOUR, 1921.  
R. L. STEHLE, 1924.



## BOTANY

(Chair founded 1829)

ANDREW F. HOLMES, 1829.  
DR. PAPINEAU, 1845.  
J. W. DAWSON, 1855-56 and 1858-83.  
JAMES BARNSTON, 1857-58.  
D. P. PENHALLOW, 1883.  
F. E. LLOYD, 1912.

## MEDICAL JURISPRUDENCE

(Chair founded 1845)

WILLIAM FRASER, 1845.  
FRANCIS BADGLEY, 1849.  
FRANCIS C. T. ARNOLDI, 1850.  
WILLIAM E. SCOTT, 1851.  
WILLIAM WRIGHT, 1852.  
R. PALMER HOWARD, 1854.  
DUNCAN C. MACCALLUM, 1860.  
GEORGE E. FENWICK, 1867.  
WILLIAM GARDNER, 1875.  
GEORGE WILKINS, 1883.  
D. D. MACTAGGART, 1911-1929.

## HYGIENE AND PUBLIC HEALTH

(Chair founded 1871—endowed 1893)

GEORGE ROSS, 1871.  
THOMAS G. RODDICK, 1873.  
ROBERT T. GODFREY, 1875.  
WILLIAM GARDNER, 1879.  
R. L. MACDONNELL, 1886.  
ROBERT CRAIK, 1889.  
WYATT JOHNSTON, 1902.  
T. A. STARKEY, 1902.  
A. G. FLEMING, Professor and Director of the  
Department of Public Health and Preventive  
Medicine, 1926.

## OPHTHALMOLOGY AND OTO-LARYNGOLOGY

*Chair of Ophthalmology and Otology*

(Founded 1883)

FRANK BULLER, 1883.



## FACULTY OF MEDICINE

*Chair of Laryngology*  
(Founded 1893)

G. W. MAJOR, 1893.

H. S. BIRKETT, 1895.

*Chair of Oto-Laryngology*

H. S. BIRKETT, 1895.

E. HAMILTON WHITE, 1931.

*Chair of Ophthalmology*

J. W. STIRLING, 1906.

W. G. BYERS, 1923.

## CHAIR OF ZOOLOGY

E. W. MACBRIDE, 1902.

ARTHUR WILLEY, 1910.

## CHAIR OF HISTORY OF MEDICINE

ANDREW MACPHAIL, 1907.

## CHAIR OF BACTERIOLOGY

F. C. HARRISON, 1928.

E. G. D. MURRAY, 1930.



The ninety-ninth session of the Faculty of Medicine will open on September 16th, 1931.

### ENTRANCE REQUIREMENTS

A sound general education is an essential foundation for professional training and a four-year course leading to a B.A. or B.Sc. degree is considered the most desirable preparation for the study of medicine. Preference will be given, therefore, to applicants who have had a full academic course in which the humanistic studies have not been sacrificed to a narrow scientific specialization.

Candidates without a degree should have at least three years of college work. In exceptional cases applications may be received from students who have completed two years of work in a recognized college or faculty of Arts, provided they present certificates that they have scholastic standing placing them in the first third of their class.

It is distinctly to be understood that the Faculty does not undertake to accept all students who have passed the courses necessary to fulfil the requirements. It reserves the right to select for admission only those candidates who, in the opinion of the Committee on Admissions, give promise of work of high quality in the medical course.

All applicants must present satisfactory evidence that their college courses include the following:—

**Physics**—One year of general college Physics with laboratory work.

**Biology**—One year of General Biology and Zoology with laboratory work. One half-year of Botany and one half-year of Zoology will be accepted, but not one year of Botany alone.

**Chemistry**—Two years:—

- (a) One full course of General Chemistry with laboratory work.
- (b) One full course of Organic Chemistry with laboratory work.

Students who wish to pursue their preliminary course at McGill may register as regular undergraduates in the Faculty of Arts and Science and should apply for admission to the Faculty of Medicine at the end of their third year or preferably on graduation.



Candidates for admission to the Faculty of Medicine must also present evidence that they have satisfied the matriculation requirements of the Licensing Body of the Province to which they belong. (For further particulars see "Requirements for Licence to Practise," p. 370.)

#### APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than July 1st.

A fee of \$25.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

#### APPLICATION FOR EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit to the Secretary of the Faculty an official statement of his preliminary education and of the course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

#### REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office for the session 1931-32 on September 9th to September 15th, 1931. Those who register after September 15th will be required to pay a fee of \$5.00 if they do so during the first week of the session and \$10.00 if during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.



## PHYSICAL EXAMINATION, VACCINATION AND HEALTH

In order to promote as far as possible the physical welfare of the student body, every student coming to the University for the first time will be required to pass a physical examination. Students of all Years who wish to engage in athletic activities, are also required to undergo physical examination. The hours for this examination will be announced at registration.

Students who do not present themselves for the medical examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

Re-examinations will be held from time to time throughout the session for those students who are of low category, or who are suffering from physical disabilities.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

During the session and including the Christmas holidays, all teams and individual *students desiring to participate in "outside"\* athletics* must first apply to the Captain or Manager of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

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\* "Outside athletics" is interpreted to mean the athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.



Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, and for that time only when requisitioned for by the Department. A leaflet concerning this service and the general work of the Department, together with the regulations governing athletics, will be distributed at the opening of the session.



## COURSE FOR THE M.D. DEGREE AND EXAMINATIONS

Certain fundamental changes have been initiated in this year's curriculum, rendering it much more flexible, more balanced and affording the student a certain freedom of choice. Thereby, too, the student assumes more responsibility for his own education. Incidentally he is relieved from an over-crowded curriculum in order to have more time for independent thought and work.

While a certain sequence of courses is essential to a well-ordered curriculum, he will no longer be passed on from year to year in lock step, but may assume greater latitude in the selection of the form and matter of study, and to some extent, too, in the choice of clinical teachers.

### A. THE MEDICAL COURSE

The Academic year is divided into three terms of ten weeks and the minimum period of study required for the degree is fifteen terms (five years).

The subjects comprised in the medical course are arranged in two groups:

#### The Preclinical Group:

Anatomy.

Histology and Embryology.

Biochemistry.

Physiology.

Pharmacology.

#### The Clinical Group:

Bacteriology.

Pathology.

Public Health and Preventive Medicine.

Medicine (including Pædiatrics, Neurology, Psychiatry, Dermatology and Laboratory Diagnosis).

Surgery (including Urology and Orthopædic Surgery).

Obstetrics and Gynæcology.

Ordinarily, the preclinical subjects occupy two years and the clinical group three years of the course.



In each group the courses offered are of two kinds:

*Required Courses* covering the ground which is essential to the training of a medical practitioner.

*Elective Courses* designed to give a broader and deeper training in the major subjects and the specialties.

The required courses are arranged in such a manner that a considerable amount of the student's time is left free for independent study and for elective courses, of which at least two shall be taken in the preclinical and three in the clinical subjects.

The required subjects of each group will ordinarily be taken in a definite sequence but qualified students may be allowed to arrange their schedule in accordance with their interests and previous training.

#### B. EXAMINATIONS

1. *Course Examinations*, written and oral, are held at the conclusion of each required course. In determining the standing in these examinations, the student's work during the course is taken into account.

2. *University Examinations* are conducted by two Examination Boards of senior teachers appointed by the Faculty.

(a) *The First University Examination* is held at the end of the preclinical period of study (end of the second year) and will cover the subjects of Anatomy, Histology, Physiology, Biochemistry and Pharmacology.

(b) *The Final University Examination*, at the end of the medical course, covers the field of Pathology, Bacteriology, Public Health, Medicine, Surgery, Obstetrics and Gynæcology and cognate subjects.

The Examination Board has general supervision of the final examinations in the clinical subjects and, sitting as a board, considers the cases of, (and, if necessary, examines) any candidates for the degree who have obtained a low grade in any subject.

Both Course and University Examinations cover the subject as a whole, rather than the content of any course of lectures.

In order to qualify for the First University Examinations, a student must have passed the course examinations in the required subjects of the preclinical group and, in addition, must have successfully completed at least two elective courses.



To qualify for the Final University Examinations, a student must have passed the course examinations in the required subjects of the clinical group, and have successfully completed at least three elective courses during the clinical period. He must also have satisfactorily completed the prescribed courses of study and practice in:

- I. Ophthalmology.
- II. Otolaryngology.
- III. Psychiatry.
- IV. Infectious Diseases.
- V. Anæsthesia.
- VI. Pathological Anatomical Technique and methods of Post Mortem Examination and Diagnosis.
- VII. Public Health Survey.

A student who has failed in the course examination in one of the required subjects in either group may, on decision of the Examination Committee, in consultation with the head of the Department concerned, be allowed to appear for the University Examination.

The Final Examinations in Medicine, Surgery and Obstetrics must all be passed at one time, but a student who fails in one of these subjects only may, at the discretion of the Faculty, be allowed a re-examination in that subject at the next regular examination period, provided that he shall have satisfactorily completed such additional work as may be prescribed by the Head of the Department concerned.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent.

At the end of the Spring Term, the Promotion Committee will consider the cases of all students who at the conclusion of their third term are reported by their instructors as having fallen below the grade of C and shall determine whether such students are to be allowed to continue, warned, required to repeat the course or courses, or retired from the Faculty.

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\* The "Required Courses," together with suitable "Elective Courses" in the second year, will qualify a candidate for the First (Primary) Examination for Fellowship in the Royal College of Surgeons of England and for the Primary Examination for Fellowship in the Royal College of Physicians and Surgeons of Canada.



## C. GRADING

At the conclusion of each course, students will be graded in five groups, as follows:—

A = Excellent

B = Good

C = Fair

D = Doubtful

E = Failure.

In reporting the grading, the names of those students who attain honour standing shall be arranged in order of merit; in all other grades the arrangement shall be alphabetical.

The grade assigned to a student shall be based upon the result of the Final and Class Examinations, but the instructor will also take into account the record of the work done throughout the course.

The quality of the English used by a candidate will be taken into account in determining his standing in all examinations.



# REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all of the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for five full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University.

3. No one shall be permitted to become a candidate for the degree who shall not have attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.

5. He must have attended during at least three sessions or nine terms the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have fully reported upon at least ten medical and ten surgical cases.

6. He must also have attended during one full session the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anæsthetics, under direction, at least six times, and have assisted at not less than six autopsies.



## REQUIREMENTS FOR LICENCE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the rights to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

N.B.—In order that disappointment and loss of time may be avoided, the University *requires students to register with the licensing body of their home province or state before beginning their medical course.*

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC.—Dr. J. Gauvreau, 354 St. Catherine Street E., Montreal.

ONTARIO.—Dr. H. Wilberforce Aikens, 170 University Avenue, Toronto, Ont.

NEW BRUNSWICK.—Dr. S. H. McDonald, 56 Colborne Street, Saint John, N.B.

NOVA SCOTIA.—Dr. W. H. Hattie, Halifax, N.S.

PRINCE EDWARD ISLAND.—Dr. H. D. Johnson, 51 Grafton St., Charlottetown, P.E.I.

MANITOBA.—Dr. J. E. Coulter, 604 Boyd Bldg., Winnipeg, Man.

ALBERTA.—Dr. George R. Johnston, Calgary, Alta.

SASKATCHEWAN.—Dr. A. MacG. Young, Saskatoon, Sask.

BRITISH COLUMBIA.—Dr. A. P. Proctor, Vancouver, B.C.

The Registrar for Newfoundland is Dr. T. Mitchell, St. John's, Nfld.

## DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board



that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Dr. J. Fenton Argue, 180 Metcalfe Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION  
OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a licence from the General Council it is necessary to pass one of the examining boards of Great Britain in the final subjects.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.



## COURSES OF INSTRUCTION

## ANATOMY

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.

ASSOCIATE PROFESSOR:—J. BEATTIE.

LECTURER:—H. E. MACDERMOT.

SENIOR DEMONSTRATOR:—D. S. FORSTER.

DEMONSTRATORS:—  
 { E. H. CAYFORD; H. M. ELDER;  
 R. R. FITZGERALD; G. A. FLEET;  
 G. D. LITTLE; R. M. H. POWER;  
 A. ROSS; W. W. RUDDICK;  
 P. G. SILVER.

The Required Courses in Anatomy, are given in the first three terms of the Medical Course. In subsequent terms of the Second Year, opportunity is afforded through the Elective Courses for a complete revision in Anatomy together with choices of advanced work.

## REQUIRED COURSES

## 1. Lecture Course in Gross Anatomy.

Three hours weekly through the Autumn, Winter and Spring Terms.....Professors Whitnall and Beattie.

*Text-books:*—Gray's "Anatomy" (English Edition); Whitnall's "Study of Anatomy."

*Reference books:*—Quain, Cunningham, Piersol, Keith's "Human Embryology and Morphology."

*Recommended for Collateral Reading:*—Keith's "Menders of the Maimed"; Hilton's "Rest and Pain."

## 2. Laboratory Course in Gross Anatomy.

Fifteen hours weekly during the Autumn and Winter Terms, and fourteen hours weekly during the Spring Term.

Professor Whitnall and Staff.

*Practical Manual:*—Walmsley.

## 3. Tutorials: Devoted mainly to the study of osteology and surface anatomy.

One hour weekly throughout the session.

Drs. MacDermot and Forster.

*Text-books:*—Gray's "Anatomy"; Thompson's "Surface Anatomy."



4. **Discussions:** Informal class discussions upon problems and difficulties.  
One hour a week throughout the session.....Dr. Beattie.

## ELECTIVE COURSES

5. **A Revision of the Whole Body by Dissection.**  
Time required, three afternoons a week.
6. **A Course of Study of the Special Sense Organs.** Two afternoons a week.
7. **Special Regions.** Two afternoons a week.  
Professor Whitnall and Staff.

## ADDITIONAL COURSES

8. **Ophthalmological Anatomy:** Mainly a laboratory course designed for graduates in Medicine who intend to specialize in Ophthalmology.  
By arrangement. Details on application.....Professor Whitnall.
9. **Oto-laryngological Anatomy:** A similar course.  
By arrangement. Details on application.....Professor Whitnall.
10. **Physical Anthropology:** A didactic and laboratory course.  
By arrangement .....Dr. Beattie.
11. **Neurology:** A series of colloquia on recent work on the Nervous System.  
By arrangement .....Dr. Beattie.
12. **Comparative Anatomy of the Primates:** Offered for students taking the Honours Course in the Biological Sciences. The course is based upon and continues the work of general comparative anatomy and leads on to the study of human anatomy.  
Two lectures or colloquia and two hours of laboratory work per week during the year.....Dr. Beattie.

## HISTOLOGY AND EMBRYOLOGY

PROFESSOR:—J. C. SIMPSON.

LECTURERS IN HISTOLOGY:— $\left\{ \begin{array}{l} \text{D. J. BOWIE.} \\ \text{W. M. FISK.} \\ \text{C. T. CROWDY.} \end{array} \right.$

DEMONSTRATOR IN HISTOLOGY AND EMBRYOLOGY:—H. E. RAWLINSON.

DEMONSTRATOR IN HISTOLOGY:—G. C. ANDERSON.



## REQUIRED COURSES

1. **Histology and Embryology—Lecture Course.**  
Two hours weekly during the Autumn, Winter and Spring Terms.  
Professor Simpson and Dr. Rawlinson.  
*Text-books:*—Jordan, Bailey, Lewis and Bremer.
2. **Histology and Embryology—Laboratory Work.**  
Eight hours weekly during the Autumn, Winter and Spring Terms.
3. **Organogenesis:** The development of the organs and systems of the human body.  
One hour a week during the first half session and two hours during the second.....Professor Simpson.  
*Reference books:*—Jordan; Arey; Keith.

## ELECTIVE COURSES

4. **Advanced Histology and Embryology.**  
Laboratory course in histology and histological technique open to students who have completed Courses 1 and 2.  
Three or more hours weekly throughout the Session...Dr. Bowie.
5. **Advanced Embryology:** Advanced work, including practical instruction in embryological technique.  
Six hours a week throughout the session.....Dr. Rawlinson.

## PHYSIOLOGY

THE JOSEPH MORLEY DRAKE PROFESSOR:—JOHN TAIT.

RESEARCH PROFESSOR:—BORIS P. BABKIN.

ASSISTANT PROFESSOR:—N. GIBLIN.

LECTURER:—S. DWORKIN.

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{G. F. SUTHERLAND.} \\ \text{D. A. ROSS.} \end{array} \right.$

In this department special provision is made not only for undergraduate but also for graduate instruction. There are full courses in Physiology proper for all undergraduates. For graduate and for elective purposes other special courses are given.



## REQUIRED COURSES

1. **Introductory Course**—Lectures and Demonstrations.  
In this course, which is comprehensive rather than detailed, the general principles of the subject are dealt with.  
Two hours a week during the first half session, and three hours a week during the second half session.
2. **Intermediate Course**—Lectures, Demonstrations and Laboratory.  
Three lectures, one demonstration and six hours laboratory work a week. Autumn Term.  
The more detailed description of the nervous system and sense organs forms a part of this course. The accompanying laboratory course consists of experiments on surviving parts of the frog and on the human subject.  
*Text-books*:—Howell, Macleod, Starling, Stewart.
3. **Senior Course**—Lectures, Demonstrations and Mammalian Laboratory.  
During these lectures the survey of the subject for undergraduate medical purposes is completed. The laboratory work accompanying the course involves a more advanced operative and instrumental technique.  
Three lectures, one demonstration and six hours of laboratory work. Winter Term.  
*Text-book*:—Sharpey-Schäfer, "Experimental Physiology."

## ELECTIVE COURSES

4. **Lectures on Selected Advanced Topics.**  
Professors Babkin and Giblyn.  
During each year a variety of subjects is handled. As these vary from year to year, the titles will be announced at the commencement of the Autumn Term. The lectures are held twice a week throughout the Graduate Faculty teaching session. For elective purposes special parts of the course may be separately attended.
5. **Tutorial Course.**  
Dr. Dworkin, Dr. Sutherland, Mr. Ross.  
This course is for the discussion of physiological problems, and entrants are required to use the library in preparation for the meetings.  
One hour a week Winter Term.  
One hour a week Spring Term.



*Courses only for Graduate Students.*

6. Lectures on Structure and Function.....Professor Tait.
7. Advanced Laboratory.
8. Physiological Colloquium.

**PSYCHOLOGY**

PROFESSOR OF ABNORMAL PSYCHOLOGY:—J. W. BRIDGES.

ASSISTANT PROFESSOR OF ABNORMAL PSYCHOLOGY:—  
K. M. BANHAM BRIDGES.

**REQUIRED COURSE**

1. **Normal and Abnormal Psychology.** Psychophysiological standpoint, the relation of abnormal to normal mental life and behaviour, the mechanism of behaviour and the physical basis of consciousness, theories of the unconscious, the motivation of behaviour, association and dissociation; imitation, suggestion, instinct, habit, emotion, memory, intelligence, character, temperament, and their abnormalities.  
Two lectures a week. Autumn Term...Professor J. W. Bridges.

**OPTIONAL COURSES**

These are one term courses open to students in the Fourth and Fifth Years and to graduates.

2. **Mental Measurements.** Intelligence tests, ratings of character and temperament, and other mental examination methods.  
The course will include practice in giving tests.  
This course is intended for students specializing in psychiatry.  
By arrangement.....Prof. J. W. Bridges.
3. **Child Psychology.** Aspects of mental development, with special reference to the pre-school child. The course will include practical observations in the McGill Nursery School.  
This course is intended for students specializing in pediatrics.  
By arrangement.....Asst. Prof. K. M. B. Bridges.
4. **Psychology in Industry.** The selection of employees, the worker's efficiency, and his adjustment to his task.  
This course is intended for students specializing in Industrial Medicine.  
By arrangement.....Prof. J. W. Bridges.  
*Text-book:*—Bridges, J. W., Psychology, Normal and Abnormal, for Medical Students.



## BIOCHEMISTRY AND PATHOLOGICAL CHEMISTRY

PROFESSOR:—J. B. COLLIP.

ASSISTANT PROFESSOR:—D. L. THOMSON.

LECTURERS ON PATHOLOGICAL CHEMISTRY:— $\left\{ \begin{array}{l} \text{E. H. MASON.} \\ \text{I. M. RABINOWITCH.} \end{array} \right.$ RESEARCH FELLOWS:— $\left\{ \begin{array}{l} \text{R. L. KUTZ.} \\ \text{J. S. L. BROWNE.} \\ \text{L. I. PUGSLEY.} \\ \text{C. W. CHAPMAN.} \end{array} \right.$ 

In addition to the required courses of lectures and laboratory exercises, an elective course of lectures, conferences and laboratory work is offered in which one section of the general field is treated in greater detail. Both these courses are designed primarily for medical students, and are intended as an introduction to clinical chemistry and medicine. Advanced lectures on various topics are also given in the Department, as set forth in the Announcement of the Faculty of Graduate Studies, and undergraduates are permitted to attend these lectures.

## REQUIRED COURSES

## 1. Biochemistry—Lecture Course:

This course forms a general introduction to the subject and is divisible into four parts: first, a survey of the chemical nature and physicochemical properties of the foodstuffs and the constituents of living matter; second, an account of the transformations undergone by these substances in digestion and metabolism; third, the principles of the science of nutrition; fourth, an introduction to pathological chemistry.

*Text-books:*—Bodansky: "Introduction to Physiological Chemistry." Cameron: "A Text-book of Biochemistry."

*Reference books:*—Peters & van Slyke: "Quantitative Clinical Chemistry," Gortners; "Outlines of Biochemistry," Thomson: "The Life of the Cell," Lusk: "Science of Nutrition."

Monday and Friday at 10, Wednesday and Saturday at 9, during the Autumn and Winter terms.

## 2. Biochemistry—Laboratory Course:

The exercises will deal with the practical side of the subjects treated in the lecture course, such as the chemical properties of the



carbohydrates, fats, and proteins, and the qualitative and quantitative analysis of blood, urine, and other body fluids for their most significant constituents, by volumetric and colorimetric methods. A synopsis of the course is issued by the Department.

*Reference books:*—Hawk & Bergeim, "Practical Physiological Chemistry." Folin, "Laboratory Manual of Biological Chemistry."

Six hours a week. Monday, Wednesday and Friday mornings in the Autumn and Winter terms.

#### ELECTIVE COURSES

##### 3. Endocrinology and Metabolism—Lecture Course:

In this course a survey will be made of the ductless glands, the action of hormones on growth and reproduction and on the metabolism of various substances, in health and disease.

*Reference books:*—Pryde, "Recent Advances in Biochemistry"; Lovatt Evans, "Recent Advances in Physiology"; Parkes, "The Internal Secretions of the Ovary," in addition to those listed in Course 1.

Two hours a week—Monday and Friday at 2, in the Autumn and Winter terms.

##### 4. Endocrinology and Metabolism—Laboratory Course:

Laboratory experiments to illustrate the lecture course will be arranged, and analytical methods employed in studies of metabolism will be practised.

Up to six hours a week in the Autumn and Winter terms.

#### PATHOLOGY

STRATHCONA PROFESSOR:—HORST OERTEL.

ASSOCIATE PROFESSOR:—L. J. RHEA.

ASSISTANT PROFESSOR:—T. R. WAUGH.

LECTURER AND DOUGLAS FELLOW IN PATHOLOGY:—W. H. CHASE.

LECTURER:—J. E. PRITCHARD.

LECTURER IN NEUROPATHOLOGY:—W. V. CONE.

ASSISTANT DEMONSTRATORS:—  
A. MACDONALD.  
A. L. HUNT.  
T. FARMER.  
H. STARKEY.  
G. A. COPPING.  
R. J. BRISTOW.

CURATOR OF MUSEUMS:—E. L. JUDAH.



NOTE: Students for the degree of Doctor of Medicine are advised to commence the study of Pathology at the beginning of their clinical instruction, i.e., in the Third Year, and pursue it in the following order:

*First:* General Pathology, with its laboratory course in general pathological anatomy and histology (Courses A1 and A2).

*Second:* Special Pathology (Course B1), including the special didactic courses on the diseases of the blood forming organs, the more important ductless glands, and of the nervous system (Courses B2, B3, B4), with the laboratory course in special pathological anatomy and histology (Course B5), and also to attend the demonstrative courses and practical exercises in pathological anatomical methods (Course B6).

It is desirable that students should continue to attend the demonstrative courses and practical exercising in pathological anatomy and choose from the electives throughout the rest of their study. Students may find it advantageous to refresh their minds during their later clinical years in certain parts of General and Special Pathology in which they are interested by returning to the didactic lectures in General and Special Pathology in addition to taking up some of the electives.

A study room has been set aside in the Pathological Institute more particularly for the students of Special Pathology and those under advanced clinical instruction, in which gross and microscopic material illustrative of topics discussed in the didactic lectures are weekly put on exhibition for personal study, at the student's leisure. Museum material may also be requisitioned. This room is open from 9 a.m. to 6 p.m. during the session, and demonstrators will be available for consultation.

#### REQUIRED COURSES

##### I. DIDACTIC LECTURES.

##### A1. General Pathology and Pathological Morphology.

Comprising (1) the philosophical and historic evolution of the conceptions of disease; (2) the general foundations and relations of morbid life in constitutional, physical and chemical environment and parasitism; (3) pathogenesis and the structural changes incident to it. Two lectures (with epidiascope demonstrations) a week.

Autumn Term—Tuesday and Thursday, 4 p.m.

Winter and Spring Terms—Monday and Friday, 4 p.m.

Pathological Institute.....Professor Oertel.



**B1. Special Pathological Anatomy and Pathogenesis of the Circulatory, Respiratory, Digestive and Renal Systems.**

One lecture with epidiascope demonstrations a week.

Autumn Term—Friday, 4 p.m.

Winter and Spring Terms—Wednesday, 4 p.m.

Pathological Institute.....Professor Oertel.

**B2. Diseases of the Blood Forming Organs.**

One lecture a week. Autumn Term—Monday, 4 p.m.

Pathological Institute.....Professor Waugh.

**B3. Pathological Anatomy of the More Important Ductless Glands.**

One lecture a week. Winter Term—Tuesday, 4 p.m.

Pathological Institute.....Dr. Chase.

**B4. Pathological Anatomy of the Nervous System.**

One lecture a week. Spring Term—Tuesday, 4 p.m.

Pathological Institute.....Dr. Cone.

**II. PRACTICAL COURSES.****A2. Laboratory Courses in General Pathological Anatomy and Histology, (including the methods of microscopic technique and diagnosis with practical exercises in the living animal, in fresh and in hardened tissues). Six hours weekly.**

Winter and Spring Terms—Tuesday and Thursday, 2 p.m.

Pathological Institute.....Professor Oertel and Demonstrators.

**B5. Laboratory Course in Special Pathological Anatomy and Histology. Two hours weekly.**

Winter and Spring Terms—Monday and Friday, 4 p.m.

Pathological Institute.

Professor Waugh, Dr. Chase, Dr. Cone and Demonstrators.

**B6. Demonstrative Course and Practical Exercises in Pathological Anatomical Methods and Diagnosis, (including autopsy technique and reference to medico-legal practice).**

Autumn, Winter and Spring Terms—Saturday morning, 11-12.30.

Pathological Institute.....Professor Oertel.



**C1. Performance of Autopsies—Group Instruction.**

Autumn, Winter and Spring Terms. Time according to material.  
Pathological Institute.....Dr. Chase and Demonstrators.  
Montreal General Hospital.....Professor Rhea and Demonstrators.

## ELECTIVE COURSES

**B7. Special Pathological Anatomy of Bones.**

Spring Term—Thursday, 4 p.m.  
Pathological Institute.....Professor Waugh.

**B8. Special Hæmatological Technique.**

Lectures and demonstrations on the more important hæmatological methods of examining the blood.  
Winter Term—Thursday, 4 p.m.  
Pathological Institute.....Professor Waugh.

**C2. Methods of Post-Mortem Examination**, (including the methods of anatomical description and protocoling). For advanced students and physicians preparing for medico-legal practice. Time to be arranged.  
Pathological Institute.....Dr. Chase.

**C3. Demonstration and Discussion of Specimens Removed at Operation**, (including microscopic diagnosis and interpretation). For advanced students.  
Autumn, Winter and Spring Terms—Wednesday, 3 p.m.  
Pathological Institute.....Professor Waugh.

**C4. Clinical Pathological Conferences** (see Medical and Surgical Schedules) between surgical and pathological staffs of both hospitals.  
To be held in time allotted to them.....Professors Oertel and Rhea with Professors Archibald, Meakins, Howard, Eberts, Gordon, Patch, and Peters.



## BACTERIOLOGY

PROFESSOR:—E. G. D. MURRAY.

LECTURERS:— $\left\{ \begin{array}{l} \text{W. W. BEATTIE.} \\ \text{F. SMITH.} \end{array} \right.$ 

DEMONSTRATOR:—

## REQUIRED COURSE

## Medical Bacteriology.

30 lectures, 90 hours Practical Work and a weekly Tutorial class—Autumn Term, Third Year.

Introductory and Historical Survey, Elements of Morphology and Physiology and a limited classification of Pathogenic Bacteria; Growth, Death and Variation; Sterilization methods, their applications and where and how they may fail; Culture Media and Cultural methods; the process of Infection and Invasion, the Epidemiology, the progress of the disease to healing and death, the tissue reaction and the isolation and identification of the infecting organism in diseases caused by: the Staphylococcus, the Streptococcus (including the Pneumococcus), the Gonococcus and Meningococcus, the Typhoid-Coli-Dysentery group, *Br. militensis*, *P. pestis*, *C. tetani* and the Gas-gangrene bacilli, *Cor. diphtheriae*, *My. tuberculosis*, the Spirochaetes and the Filterable Viruses; the Carrier Problem; Arthropod Vectors; Phagocytosis; Agglutination, Precipitation, Bacterolysis and Haemolysis and their applications; the Wassermann Reaction; Toxins and Antitoxins, illustrated by Diphtheria, Tetanus, and the Schick, Dick & Schultz-Charlton Reactions; Prophylactic Vaccination.

Pathological Institute.

Professor Murray, Dr. Beattie and Dr. Smith.

## ELECTIVE COURSES

1. General Bacteriology.
2. Systematic Bacteriology.
3. Immunology.

For details see the Announcement of the Faculty of Arts and Science (p. 63).

Pathological Institute.....Professor Murray and Dr. Smith.

For advanced courses leading to higher academic degrees see the Announcement of the Faculty of Graduate Studies and Research.



## PUBLIC HEALTH AND PREVENTIVE MEDICINE

PROFESSOR AND DIRECTOR:—A. GRANT FLEMING.

STRATHCONA PROFESSOR OF HYGIENE:—T. A. STARKEY.

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{R. ST. J. MACDONALD.} \\ \text{F. B. JONES.} \end{array} \right.$

ASSISTANT PROFESSOR OF MENTAL HYGIENE:—W. T. B. MITCHELL.

ASSISTANT PROFESSOR OF INDUSTRIAL HYGIENE:—FRANK G. PEDLEY.

LECTURER IN MENTAL HYGIENE:—C. M. HINCKS.

DEMONSTRATOR IN MENTAL HYGIENE:—BARUCH SILVERMAN.

DEMONSTRATOR IN INDUSTRIAL HYGIENE:—R. VANCE WARD.

The instruction in Public Health and Preventive Medicine given to the medical undergraduates is designed to meet the requirements of the practitioner in Medicine.

In order that the importance of Public Health and Preventive Medicine may be kept before the student, short courses are given in the First and Second Years. These courses are of an introductory nature and, from a historical background, develop the needs and opportunities for preventive medicine and its social implications.

The Department aims to correlate the teaching of the preventive aspects of medicine with the teaching of other departments in their special field. In addition, those phases of the subject that are not included elsewhere are covered, such as water, milk and food supplies, public health administration, hygiene of the school child, industrial hygiene and mental hygiene.

The course in Mental Hygiene, included in the teaching of the Department of Public Health and Preventive Medicine, attempts to give the student an understanding of what is possible and of what is being done in the way of preventing nervous and mental diseases, delinquency and crime, and social failure. This implies a knowledge of what is normal in the way of behaviour responses at the different stages of the individual development; of how we may recognize and deal with significant deviations from the average response; the factors underlying individual success and failure; the place and the means of introducing mental health principles into home, school, social and industrial situations.



The hygiene of the child of school age includes, for consideration, the chief points of a school health service, its scope, and the duties of the School Medical Officer, a post frequently undertaken by the general practitioner.

Industrial Hygiene deals with the application of the principles of preventive medicine to industry. The various factors which influence the health of work people are discussed, and the means which may be taken to supervise their health and safety are considered.

In the Third Year, visits of inspection are made to plants selected to illustrate the general principles of water purification, and the modern dairy plant, including pasteurization.

A brief course in Applied Public Health Bacteriology is given to familiarize the student with the facilities available, the method of taking specimens, the methods of examination and the interpretation of laboratory reports on water, milk, sputum, nose and throat swabs.

A health study of the student's home town, or some other place acceptable to the Department, is required before the beginning of the Fifth Year. This study requires individual field work by each student.

#### REQUIRED COURSES

1. **Introduction to Public Health and Preventive Medicine.**  
Spring term—Monday, 4 p.m.  
Professors Fleming, Macdonald and Mitchell.
2. **Public Health Organization and Administration.** (Including related community services.)  
Spring term—Wednesday, 9 a.m.  
Professors Fleming and Dawson and Dr. Silverman.
3. **Mental Hygiene.**  
Autumn term—Tuesday, 3 p.m. .... Professor Mitchell.
4. **Practice of Preventive Medicine.**  
Spring term—Monday and Friday, 3 p.m.; Wednesday, 2 p.m.  
Professors Fleming, Starkey, Macdonald and Pedley.



5. Field Visits, Demonstrations and Applied Public Health Bacteriology.

Spring term—Wednesday, 3 p.m.

6. Communicable Disease Control.

Autumn term—Thursday, 4 p.m.. Professors Fleming and Macdonald.

7. Health Study of a City or Town.

To be submitted during the month of October of the final year. The student is later required to review this study with a member of the staff.

*Text-books and Reference books:—*

*The General Field:*—Parkes and Kenwood; Notter and Firth; Harrington and Richardson; Rosenau; Park; Fitzgerald.

*Industrial Hygiene:*—The Health of the Industrial Worker, Collis and Greenwood; Industrial Health, Hayhurst, Emery and Kober; Industrial Poisons in the United States, Hamilton.

*Mental Hygiene:*—The Mental Hygiene of Childhood, White.

*School Hygiene:*—The Fundamentals of School Health, Kerr.



## PHARMACOLOGY AND THERAPEUTICS

PROFESSOR:—R. L. STEHLE.

ASSOCIATE PROFESSOR OF THERAPEUTICS:—D. S. LEWIS.

LECTURER IN PHARMACOLOGY:—K. I. MELVILLE.

LECTURER IN THERAPEUTICS:—D. GRANT CAMPBELL.

LECTURER IN ANÆSTHESIA:—WESLEY BOURNE.

LECTURER IN PHYSIO-THERAPY:—

{	F. W. HARVEY.
	NORMAN BROWN.

DEMONSTRATORS IN PHARMACOLOGY:—

{	J. B. ROSS.
	W. DEM. SCRIVER.
	HERMANN SCHROEDER.

## PHARMACOLOGY

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

## REQUIRED COURSES

1. **Pharmacology.** The action of drugs is considered on the basis of information derived by means of experimental methods and careful clinical observation. The chemistry of the drugs studied is emphasized in order that the student may have a good foundation upon which to follow future developments of the subject intelligently.

Three lectures a week during the Spring Term supplemented by one conference and one demonstration a week.

The conference groups are limited to four students each.

Drs. Stehle and Melville.

2. **Pharmacological Laboratory.** The experiments are chosen to illustrate the lectures of the preceding course.

Two periods (six hours) a week during the Spring Term.

Drs. Stehle and Melville.

## THERAPEUTICS

The teaching of therapeutics will be linked closely with that of medicine. Lectures in Course 3 will be interpolated between the uni-



versity lectures in medicine, so that the treatment of each group of diseases will immediately follow their discussion from the medical point of view. Courses 3, 4 and 5 should be completed to registration for Course 6.

#### REQUIRED COURSES

3. **Therapeutics.** A series of approximately twenty university lectures on the principles of therapeutics. They will be given at intervals, chiefly during the Winter and Spring Terms, and will be open to members of the Third, Fourth and Fifth Years.

Professor Lewis and Associates.

4. **Pharmacy and Prescription-writing.** Five lectures and five laboratory periods during the Autumn Term.

Dr. Scriver.

5. **Clinical Therapeutics.** One ward class per week for ten weeks, in the Autumn, Winter and Spring Terms, at the Royal Victoria and Montreal General Hospitals...Prof. Lewis and Dr. Campbell.

6. **Physio-Therapy.** Three lectures and three periods of group instruction during the Autumn Term.

Professor Lewis and Drs. Brown and Harvey.

7. **Physiotherapy (Practical).** A course of lectures and demonstrations dealing more fully with the application of physical methods to the treatment of diseases.

Drs. Brown and Harvey.

*Text-books in Pharmacology.* Cushny, Sollman, Poulsson, Meyer and Gottlieb.

#### OPTIONS

Suitably prepared persons may undertake research at any time.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See announcement of the Faculty of Graduate Studies.



## MEDICINE

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—JONATHAN C. MEAKINS.

PROFESSORS:— $\left\{ \begin{array}{l} \text{CAMPBELL PALMER HOWARD.} \\ \text{W. F. HAMILTON.} \\ \text{C. F. MARTIN.} \end{array} \right.$

ASSOCIATE PROFESSOR:—A. H. GORDON.

ASSISTANT PROFESSOR OF MEDICAL RESEARCH:—MAUDE E. ABBOTT.

ASSISTANT PROFESSOR OF MEDICAL RESEARCH (BIOCHEMISTRY):—  
C. N. H. LONG.

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{E. H. MASON.} \\ \text{C. A. PETERS.} \\ \text{I. M. RABINOWITCH.} \end{array} \right.$

LECTURERS:— $\left\{ \begin{array}{l} \text{J. G. BROWNE, D. G. CAMPBELL, J. KAUFMANN,} \\ \text{D. S. LEWIS, A. H. MACCORDICK,} \\ \text{C. F. MOFFATT.} \end{array} \right.$

LECTURER (TUBERCULOSIS):—J. R. BYERS.

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{C. C. BIRCHARD, C. R. BOURNE,} \\ \text{G. R. BROW, KEITH GORDON,} \\ \text{R. H. M. HARDISTY, A. T. HENDERSON,} \\ \text{C. R. JOYCE, H. E. MACDERMOT,} \\ \text{J. F. MACIVER, D. W. McKECHNIE,} \\ \text{J. L. D. MASON, D. L. MENDEL,} \\ \text{E. S. MILLS, LORNE MONTGOMERY,} \\ \text{E. V. MURPHY, E. E. ROBBINS,} \\ \text{W. DE M. SCRIVER, COLIN SUTHERLAND,} \\ \text{J. J. WALKER, J. C. WICKHAM.} \end{array} \right.$

ASSISTANT DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{W. W. ALEXANDER, W. C. GOWDEY,} \\ \text{H. N. SEGALL, C. J. TIDMARSH,} \\ \text{W. W. EAKIN, N. FEENEY,} \\ \text{C. W. FULLERTON.} \end{array} \right.$

RESEARCH FELLOW:—R. V. CHRISTIE.



PÆDIATRICS

CLINICAL PROFESSOR:—H. B. CUSHING.

LECTURERS:— $\left\{ \begin{array}{l} \text{A. B. CHANDLER, A. GOLDBLOOM,} \\ \text{L. LINDSAY, S. GRAHAM ROSS,} \\ \text{R. R. STRUTHERS, H. P. WRIGHT.} \end{array} \right.$

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{W. E. ENRIGHT, JESSIE BOYD SCRIVER,} \\ \text{R. C. STEWART, W. E. WILLIAMS.} \end{array} \right.$

ASSISTANT DEMONSTRATOR:—A. K. GEDDES.

PSYCHIATRY

CLINICAL PROFESSOR:—C. A. PORTEOUS.

ASSISTANT PROFESSOR:—DAVID SLIGHT.

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{A. G. MORPHY.} \\ \text{E. C. MENZIES.} \end{array} \right.$

DERMATOLOGY

CLINICAL PROFESSORS:— $\left\{ \begin{array}{l} \text{P. BURNETT.} \\ \text{J. F. BURGESS.} \end{array} \right.$

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{C. R. BOURNE.} \\ \text{L. P. EREAUX.} \\ \text{A. A. BRUÈRE.} \end{array} \right.$

ASSISTANT DEMONSTRATOR:—B. USHER.

*Foreword on the Courses in Medicine.* The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded by the establishment of a modern medical clinic at the Royal Victoria Hospital. In this institution and at the Montreal General Hospital there are extensive laboratories for



the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

The courses in internal medicine and its various branches are so arranged as to give the individual student as much independence as possible in his selection of his instructors and time and place of his required and elective courses. The University lectures and clinical lectures are open to students of all years. The student, therefore, may within wide limits determine the period and scope of his instruction. The final examinations may cover any portion of the realm of internal medicine and its various branches of which the examiners may deem it proper that a graduating student should be cognizant.

#### REQUIRED COURSES

1. A course of University lectures on general medicine which will include infectious diseases, nervous diseases, psychiatry, pædiatrics, and therapeutics. This course will be given in the autumn, winter, and spring terms, on Monday, Wednesday and Friday mornings, from 9 to 10 o'clock. This course of lectures will cover the whole field of medicine during two years and will be delivered at the University Medical Building, by Professors Meakins, Howard, and Assistants.
2. Clinical lectures in general medicine. A course of clinical lectures will be delivered throughout the autumn, winter, and spring terms, on two days a week. The exact hour in the different institutions will be announced from time to time. These clinical lectures will be given in the Royal Victoria Hospital and the Montreal General Hospital, by Professors Meakins, Howard, Hamilton, Gordon, and Assistants.
3. Clinical lectures in pædiatrics. A course of clinical lectures will be delivered in pædiatrics during the autumn, winter, and spring terms, on one day each week, at the Children's Memorial Hospital, by Professor Cushing and Assistants.
4. A course in the technique of physical examination and normal physical signs will be given in the autumn term, two periods a week, from 10.15 to 11.45 a.m., with one clinical lecture per week as a review. This course will be given to groups of students at the Royal Victoria Hospital and the Montreal General Hospital.
5. This course will cover physical examination and abnormal physical signs, the methods of history-taking, and systematic description of the various systems in a logical order. Its objective will be to prepare students for subsequent clinical and bedside work. It will be given in the winter and spring terms, four periods a week of two



hours each, from 10.15 to 12.15, to groups of students, at the Royal Victoria Hospital and the Montreal General Hospital.

6. A course in clinical microscopy will be given in the winter term only. There will be two laboratory periods a week, from 2 to 4 p.m., on Mondays and Fridays, in the Pathological Institute. This course will be organized so as to give instruction and practice in microscopy as applied to clinical medicine.

Doctors Kaufmann, MacCordick, and Assistants.

7. A course in clinical medicine with case reporting and bedside clinics will be given in the autumn, winter and spring terms, to groups of students at the Royal Victoria Hospital and Montreal General Hospital. Each course will occupy five days a week from 10.15 a.m. to 3.45 p.m. Professors Meakins, Gordon, Peters, and Assistants.

8. A clinical course in pædiatrics will be given during the autumn, winter, and spring terms. This course will have the following divisions:

- (a) Diseases of the New-Born—Royal Victoria Montreal Maternity Pavilion.
- (b) Normal Infant-Feeding and Development—Montreal Foundling Hospital.
- (c) General Pædiatrics—Children's Memorial Hospital, Royal Victoria Hospital, and Montreal General Hospital.
- (d) A Series of demonstrations to groups of students on the ordinary acute infectious diseases will be given at the Alexandra Hospital.

Professor Cushing, and Assistants.

This course in its divisions will be given to groups of students.

9. A course in clinical therapeutics will be given in the autumn, winter, and spring terms, of one period a week, one and one-half hour's duration, at the Royal Victoria Hospital and the Montreal General Hospital, by Professor Lewis and Dr. D. Grant Campbell.

10. In the student's final year he becomes virtually a member of the Externe Staff of the teaching hospitals. He may elect to be allotted to the various services in the hospital in the capacity of clinical clerk, participating in the keeping of records, diagnosis and treatment of patients in the wards and Out-Patient Department, and the laboratory duties. He will accompany the physicians in their daily rounds, attend autopsies and report on them to his teachers.



## ELECTIVE COURSES

Elective courses for advanced work are offered in the following subjects: Neurology, psychiatry, dermatology, clinical pathology, cardiology, hæmatology, diseases of the lungs, gastro-intestinal diseases, et cetera. The details of these elective courses will be announced at the beginning of each session.

It will be necessary for each student, in addition to taking the required courses, to choose a certain number of elective courses, the number chosen depending upon which elective courses are taken.

## TEXT AND REFERENCE BOOKS

*General Medicine*:—McLeod, "Physiology and Biochemistry in Modern Medicine"; Lewis, "Clinical Electrocardiography" and "Clinical Disorders of the Heart"; Meakins and Davies, "Respiratory Function in Disease"; Todd, "Clinical Methods"; Flint, "Physical Diagnosis"; Cabot, "Physical Diagnosis"; Thompson, "Elements of Surface Anatomy"; Lusk, "Science of Nutrition"; McLester, "Nutrition and Diet in Health and Disease"; Krehl, "Basis of Clinical Symptoms"; Osler's "Practice of Medicine"; Taylor's "Practice of Medicine"; Nelson's "Loose-Leaf System of Medicine"; Oxford, "Loose-Leaf System of Medicine"; Dieulafoy, "The text-book of Medicine"; Strumpell, "Text-book of Medicine for Students and Practitioners"; McKenzie, "Diseases of the Heart"; Purves Stewart, "Diagnosis of Nervous Diseases"; Bassler, "Diseases of the Stomach and Intestines"; Pharnco, "Teaching Hospitals."

*Pædiatrics*:—Holt and Howland; Dennet; Feer, Still; Porter and Carter; Morse and Talbot; Alan Brown.

*Psychiatry*:—White, "Outlines of Psychiatry; Kraepelin, "Clinical Psychiatry"; Wimmes Hoisholt, "Psychiatric Neurological Examination Methods"; Jelffe and White (1923 Ed.), "Diseases of the Nervous System."

*Dermatology*:—Stellwagon; Walker's Introduction to Dermatology; Hartzell; McLeod; Darier; Campbell; Shamberg; Sutton.

## HISTORY OF MEDICINE

PROFESSOR:—SIR ANDREW MACPHAIL.

A course of fifteen lectures will be given upon the History of Medicine to inform undergraduates in the Faculty upon the progress of the science. It is the intention to examine the causes which produced the varying conceptions of medicine in times past, rather than burden the student with a narration of facts and a recital of biographies.



**NEUROLOGY AND NEUROSURGERY**

CLINICAL PROFESSOR OF NEUROSURGERY AND CHAIRMAN:—  
WILDER PENFIELD.

CLINICAL PROFESSORS OF NEUROLOGY:— $\left\{ \begin{array}{l} \text{COLIN RUSSEL.} \\ \text{F. H. MAC KAY.} \end{array} \right.$

ASSISANT PROFESSOR OF NEUROLOGY AND NEUROSURGERY:—  
WILLIAM CONE.

LECTURER IN NEUROLOGY AND MADELEINE EHRET OTTMAN FELLOW:—  
J. N. PETERSON.

LECTURERS IN NEUROLOGY:— $\left\{ \begin{array}{l} \text{A. W. YOUNG.} \\ \text{N. VINER.} \end{array} \right.$

ASSISTANT DEMONSTRATOR IN NEUROLOGY:—A. R. ELVIDGE.

ASSISTANT DEMONSTRATOR IN NEUROPATHOLOGY:—I. M. TARLOV.

RESEARCH FELLOWS IN NEUROLOGY AND NEUROSURGERY:— $\left\{ \begin{array}{l} \text{G. CHOROBSKI.} \\ \text{E. L. GAGE.} \end{array} \right.$

The Department of Neurology and Neurosurgery has been created in its present form during the past year. It will co-operate intimately with the Departments of Medicine and Surgery, both as regards the teaching programme and the clinical work at the hospitals.

**SURGERY**

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—  
E. W. ARCHIBALD.

PROFESSORS:— $\left\{ \begin{array}{l} \text{A. T. BAZIN.} \\ \text{E. M. EBERTS.} \end{array} \right.$

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{W. L. BARLOW.} \\ \text{C. B. KEENAN.} \\ \text{C. K. P. HENRY.} \\ \text{F. A. C. SCRIMGER.} \end{array} \right.$

LECTURERS:— $\left\{ \begin{array}{l} \text{F. B. GURD, F. E. MCKENTY.} \\ \text{F. J. TEES.} \end{array} \right.$

LECTURER IN ANÆSTHESIA:—W. B. HOWELL.

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{JOHN ARMOUR, E. B. CHANDLER.} \\ \text{GUY JOHNSON, R. R. FITZGERALD.} \\ \text{L. H. MCKIM, A. STEWART.} \end{array} \right.$

DEMONSTRATORS IN ANÆSTHESIA:— $\left\{ \begin{array}{l} \text{J. W. ARMSTRONG.} \\ \text{C. C. STEWART.} \end{array} \right.$

ASSISTANT DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{HOWARD DAWSON, H. M. ELDER.} \\ \text{G. A. FLEET, MARK KAUFMANN.} \\ \text{G. GAVIN MILLER, ALBERT ROSS.} \\ \text{DUDLEY ROSS, P. G. SILVER.} \end{array} \right.$



## UROLOGY

CLINICAL PROFESSORS:— $\left\{ \begin{array}{l} \text{D. W. MacKENZIE.} \\ \text{F. S. PATCH.} \end{array} \right.$

LECTURER:—R. E. POWELL.

DEMONSTRATOR:—M. SENG.

## ORTHOPÆDIC SURGERY

CLINICAL PROFESSORS:— $\left\{ \begin{array}{l} \text{W. G. TURNER.} \\ \text{J. A. NUTTER.} \end{array} \right.$

LECTURER:—W. J. PATTERSON.

DEMONSTRATOR:—N. T. WILLIAMSON.

*Foreword on the Courses in Surgery.* Instruction in Surgery (and in the surgical specialties) is imparted in the form of didactic lectures, theatre clinics, ward and out-patient teaching.

The *didactic* lectures, which cover a period of two years (120 lectures) are not designed to cover the whole field of general and special surgery, but rather to present a few selected subjects thoroughly. Surgery as a whole must be studied in the recommended text books. The early lectures of this course, being introductory, are offered particularly to students who are beginning their clinical work (7th term). They deal with the fundamental principles of inflammation, wound healing, new growths and congenital abnormalities.

The *theatre clinics* in both hospitals will demonstrate, in so far as is possible, the whole field of general surgery and the surgical specialties. In the earlier terms instruction will be given in the commoner ailments of general surgery, while during the later periods the special subjects of orthopædics, genito-urinary-surgery, neuro-surgery and thoracic surgery will be given a due proportion of the time.

In the *wards and out-patient departments*, instruction can be given to smaller groups. In these classes one may more readily differentiate elementary instruction from that given to more advanced students. In other words, to the junior group are taught the principles of careful history taking, of physical examination and of accurate observation.

Later comes instruction in minor surgery, the dressing of wounds, bandaging and the application of splints—while to the advanced students is demonstrated major surgery from selected cases in the wards and operating theatre. Such advanced students are given patients in rotation



and become ward dressers. The specific duty is laid upon them of recording the case histories, making all necessary examinations and laboratory tests, and of assisting at operations. Group teaching at the bed-side, and ward rounds are added to their training, and they are given all the privileges of an externe of the surgical service.

#### REQUIRED COURSES

1. Didactic Lectures.

Three times weekly for the first two terms; 9-10 a.m., in the Medical School.....Professor Archibald and staff.

2. Theatre Clinics.

Twice weekly throughout the session, 12.30 p.m., at both general hospitals. These clinics are open to all students from the seventh terms onwards.....Professors Archibald and Bazin and staff.

3. Ward and Out-Patient Instruction.

Four times weekly, 10.30 a.m. to 12 p.m., in groups to be arranged in both general hospitals.

Independent ward work can be done by those to whom cases are allotted at any time during the day excepting the meal and visiting hours.

4. Surgical Specialties.

The surgical specialties are taught in the later periods—to some extent in didactic lectures and theatre clinics—but chiefly in the wards and out-patient departments.

5. Anæsthesia.

Didactic lectures and laboratory demonstrations of anæsthesia are given by the Department of Pharmacology and Therapeutics to the students of the earlier clinical years, while practical instruction in the administration of anæsthetics is given in the hospital to the more advanced students. Every student is obliged to furnish a certificate of having given at least six anæsthetics under supervision.

#### ELECTIVE COURSES

The following Elective Courses will be given at the Royal Victoria Hospital, while those to be given at the Montreal General Hospital will be announced later:



1. **Surgical Pathology.**

A lecture-demonstration course upon specimens from the operating-room and from the Pathological Museum in co-operation with the Pathological Department—cf. Department of Pathology, Course C3—Wednesdays, 3 p.m. .... Professor Waugh and Dr. Wilkie.

2. **Neurological Examination, Diagnosis and Treatment of Skull Injuries.**

Once a week for six weeks during each term. .... Dr. Cone.

3. **Diagnosis and Surgical Treatment of Pulmonary and Pleural Diseases.**

Once a week during the autumn and winter terms.

Drs. Archibald and Bethune.

4. **Applied Anatomy in Surgical Cases.**

Once a week. .... Dr. Armour.

*Text-books:—*

1. *General Surgery*: Choyce, C. C., "A System of Surgery"; Thomson and Miles, "Manual of Surgery"; Gask and Wilson, "Surgery"; Hamilton Bailey, "Demonstrations of Physical Signs in Clinical Surgery"; John Homans, M.D., "A Text-book of Surgery."

2. *Emergency Surgery*: Sluss, John W., "Manual of Emergency Surgery."

3. *Surgical Anatomy*: Treves' "Surgical Applied Anatomy."

4. *Fractures*: Scudder, Charles L., "Treatment of Fractures"; Wilson and Cochrane, "Fractures and Dislocations."

5. *Case Reporting*: White, J. Renfrew, "The Clinical Examination of Surgical Cases."

6. *Urology*: Keyes' Urology.

*Collateral Reading*: Lewis' System of Surgery, vols. 8-9; Eisen-drath and Rolnick, Urology; Young, Urology; Stokes, Modern Clinical Syphilology.

7. *Orthopædic Surgery*:—Whitman's "Orthopædic Surgery"; Fraser, "Tuberculosis of Bones and Joints of Children"; Tubby and Jones, "Surgery of Paralysis"; Jones, "Orthopædic Surgery of Injuries"; Jones and Lovett, "Orthopædic Surgery."



## OBSTETRICS AND GYNÆCOLOGY

PROFESSOR AND CHAIRMAN:—J. R. FRASER.

PROFESSOR:—H. M. LITTLE.

CLINICAL PROFESSORS:—

{	H. C. BURGESS.
	J. W. DUNCAN.
	J. R. GOODALL.

LECTURER:—W. A. G. BAULD.

DEMONSTRATORS:—

{	A. D. CAMPBELL.
	DOUGLAS GURD.
	IVAN PATRICK.
	ELEANOR PERCIVAL.

CLARA LAW FELLOW AND DEMONSTRATOR:—P. J. KEARNS.

ASSISTANT DEMONSTRATORS:—

{	STEWART HENRY.
	N. W. PHILPOTT.
	C. V. WARD.

## OBSTETRICS

## REQUIRED COURSES

1. An introductory course of thirty lectures on the fundamental principles of the subject dealing with the Anatomy, Embryology, Physiology and Pathology of the Pelvic Organs.  
The Medical School. Three times a week—Spring Term.  
Professor Fraser.
2. Clinical instruction during the year in the Royal Victoria Montreal Maternity Pavilion, including the conduct of labor and the puerperium in case room and wards, together with ante-natal care in the out-patient department.  
Autumn, Winter and Spring Terms.
3. Special courses in obstetrical palpation and on the mannikin daily throughout the session with the aid of models, diagrams and lantern slides. Autumn, Winter and Spring Terms.
4. Clinical conference once weekly in the theatre throughout the year for the entire class, where living cases are presented illustrating the more important obstetrical conditions.  
Autumn, Winter and Spring Terms.



5. **Group Instruction.** The teaching in the final year is conducted entirely by senior teachers.

Small groups of students are instructed in the Wards, Case Rooms and Out-patient Department in methods of examination, problems of delivery and the principles of treatment.

6. **Lecture Demonstrations** in the theatre are held daily during each term on the following subjects:—

- A. Dystocia.....Professor Little.
- B. Hæmorrhages of Pregnancy. Labor and the Puerperium.  
Professor Burgess.
- C. Toxæmia of Pregnancy.....Professor Duncan.
- D. Puerperal Infection.....Professor Goodall.

Note: Rooms are provided in the new pavilion where the students may reside, in groups of six, for a period of two weeks. During his period of internship the student will under supervision deliver patients both in hospital and at their homes, and will undertake the medical care of mother and child during the puerperium.

#### GYNÆCOLOGY

1. Theatre clinics and bed-side instruction in the Royal Victoria and Montreal General Hospitals....Professors Fraser, Little and Staff.
2. A special course on Gynæcological Pathology..Dr. P. J. Kearns.
3. Methods of Gynæcological examination, diagnosis and treatment in the outdoor departments.
4. A special course of instruction, once a week, throughout the year in the cancer clinic on methods of diagnosis and treatment of cancer, dealing especially with Radium and X-Ray..Dr. Bauld and Staff.

#### OPHTHALMOLOGY

PROFESSOR:—W. GORDON M. BYERS.

CLINICAL PROFESSORS:— $\left\{ \begin{array}{l} \text{G. H. MATHEWSON.} \\ \text{S. H. MCKEE.} \\ \text{F. T. TOOKE.} \end{array} \right.$

DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{A. G. MCAULEY.} \\ \text{J. A. MACMILLAN.} \end{array} \right.$

ASSISTANT DEMONSTRATORS:— $\left\{ \begin{array}{l} \text{A. BRAMLEY-MOORE} \\ \text{S. O. MCMURTRY.} \\ \text{STUART RAMSEY.} \\ \text{J. ROSENBAUM.} \end{array} \right.$



The undergraduate work in Ophthalmology, which is designed to meet the needs of a well-trained general practitioner, embraces the following courses:—

**1. Routine examination of the eye.**

In this work the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Instruction in the use of the ophthalmoscope and familiarization with the appearance of the normal fundus of the eye are an important feature of this preliminary course.

Five hours.

Professors Byers, Tooke, McKee and members of the Staff.

**2. Lecture demonstrations.**

This course, variously illustrated, covers the general principles and the systematic side of the subject. It has been designed to furnish a background of essential concepts for the clinical work of the Fifth Year.

Ten hours.....Professor Byers.

**3. Clinical Ophthalmology.**

In the Final Year, the entire available time is devoted to an intensive study of the ocular problems that are of greatest moment in general practice—the external diseases of the eye, and the main ophthalmoscopic findings in systemic disorders and affections of the nervous system; with practical lessons in ophthalmic nursing and first aid. This work is conducted in the ophthalmic clinics and wards of the Montreal General and Royal Victoria Hospitals.

Professors Byers and Mathewson and Staff.

*Text-books:*—Parsons, May, Swanzy, De Schweinitz, Fuchs.

**OTO-LARYNGOLOGY**

PROFESSOR:—HAMILTON WHITE.

LECTURERS:—

G. E. HODGE.

J. T. ROGERS.

D. H. BALLON.

DEMONSTRATORS:—

K. O. HUTCHISON.

W. J. McNALLY.

G. E. TREMBLE.

B. F. MACNAUGHTON.

P. WRIGHT.

A. E. LONDON.



The course of instruction in Oto-Laryngology is carried on in the wards and out-patient departments of both the Montreal General and the Royal Victoria Hospitals, where, owing to the large clinics, the students are afforded ample opportunity of receiving practical instruction in these subjects. In these two hospitals there are about fifty beds set apart for this specialty.

The courses are designed to afford the student the opportunity of acquiring the oto-laryngological knowledge required by every general practitioner. The practical work is conducted in small groups, so that the personal instruction and supervision, so essential in this subject, are given to each student.

### 1. Introductory Course.

Group instruction in:—(a) The normal anatomy of the ear, nose and throat, as exemplified in moist dissections, dried specimens, models, stereoscopic plates and radiograms of normal conditions of the accessory sinuses of the nose and mastoid process; (b) the method of using the various instruments for examining the ear, nose and throat; (c) the usual tests for hearing; (d) the recognition of normal conditions of these special organs, as exemplified by clinical material.....Professor White and Staff.

### 2. Lecture Course.

Ten lectures upon the more common pathological conditions of the ear, nose and throat met with in general practice.

Professor White.

### 3. Clinical Oto-Laryngology.

A course of clinical instruction in the out-patient departments and wards of the hospitals.....Professor White and Staff.

*Text-books:*—Chevalier Jackson and Coates; St. Clair Thomson; A. Logan Turner; H. Tilley; Kerrison; Phillips; Barnhill.



## GRADUATE INSTRUCTION

1. Any graduate who so desires may attend any of the regular undergraduate courses. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. **Special graduate work** is offered in every department, both in the laboratories and in the clinics, at any period during the year, provided the graduate is willing to assign himself for serious work to one service. Application for this privilege should be made to the Dean or to the Head of the Department in which the graduate desires to occupy himself.

Vide under heading of "Departments of Physiology, Pathology, Anatomy, Hygiene, etc."

3. **Course for Diploma of Public Health:** This course is specially designed as a thorough training for medical men undertaking the duties of a Medical Officer of Health.

The duration of the course is at least eight months (October 1st to May 31st).

The curriculum is as follows:—

(a) A course of lectures dealing in a comprehensive manner with the general principles of public health and preventive medicine.

(b) Bacteriology—a full practical course in general bacteriology, with special application to public health.

(c) (1) *Sanitary Chemistry*. Examination of air, water and water supplies in general, the commoner foods and beverages, sewage and sewage effluents, etc.; chemical investigations connected with trades and occupations; (2) *Physics*. General principles only in their application to hygiene.

(d) Practical public health work. An extended course under a M.O.H., affording facilities for instruction in public health relating to housing, factories, work-shops and industrial establishments, schools, waterworks, sewage plants, refuse distribution, abattoirs, dairies and milk stations, welfare centres, etc., etc.

(e) Public health legislation and administration. Statutes and by-laws relating to public health and the powers of health authorities; administration of the office of a Medical Officer of Health.

(f) Vital statistics. Calculation and tabulations of returns of births, marriages and deaths and diseases.



(g) Meteorology and climatology; geographical and topographical distribution of disease.

Candidates for this diploma may claim exemption in any of the above subjects on presentation of adequate certificates.

Qualification for the diploma includes a knowledge of communicable diseases, of child hygiene and mental hygiene, the use of meteorological, hygienic and sanitary apparatus.

The successful candidate must further know the appearance of healthy and diseased tissues of animals, and their microscopic examination.

Finally, he must show a capacity to formulate a report on public health conditions in an actual locality and make annual and other reports as required by Officers of Health.

These examinations are written, oral and practical.

The fee for the course, including the diploma, is \$100.00.

**4. Special Courses.** Graduates desiring instruction in any special branch of Public Health and Preventive Medicine, such as School Health Services and Industrial Hygiene, should apply to the Head of the Department. Courses will be arranged, suitable for the applicants, in order that they may receive full benefit from the time devoted to the course.



## BUILDINGS

### THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over \$600,000, contains the Offices of Administration, the Medical Library (with its 38,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museums of Anatomy, Pathology and Ethnology. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology and Embryology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

### THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over \$500,000, this edifice was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

Adjacent to and connected with the Biological Building is the Laboratory for Experimental Surgery. This two-storey building contains two operating units with sterilization and anæsthetic rooms, as well as commodious quarters for the storage of animals and their care during convalescence. The equipment is very complete and includes a refrigerator plant and kitchen.

### THE PATHOLOGICAL INSTITUTE

This Building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital by a tunnel, is situated on the Northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology, Bacteriology and Medical Jurisprudence, and includes a Pathological Museum and museum workshops. It combines under one roof, quarters for teaching and research in these departments, both for the University and for the Royal Victoria Hospital. From the



latter it draws chiefly its material. It was constructed at a cost of \$460,000; is of Montreal limestone; its main front is 242 feet long; the north end is 77 feet wide and the south end 60 feet. It provides ample facilities and equipment for instruction of students, and the research work of the Staff.

#### HOSPITALS

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and geographical conditions exist for the teaching of scientific and practical medicine.

The Medical School is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University as well as with clinical facilities is thus made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:—

Royal Victoria Hospital.

Montreal General Hospital.

Children's Memorial Hospital.

Foundling Hospital.

Alexandra Hospital for Infectious Diseases.

Protestant Hospital for the Insane.

Royal Edward Institute for Tuberculosis.

The Royal Victoria Montreal Maternity Hospital.

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contain over 2,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, is a general hospital for acute diseases and contains 680 beds. During 1930 it cared for 14,597 cases, while in its outdoor department 82,952 cases were treated. Many new additions have been made to the Hospital. A modern University Medical Clinic was established in 1924.

There were 273 post-mortems during 1930.

The number of resident physicians is 40.

The Royal Victoria-Montreal Maternity Pavilion, with 200 beds for obstetrical and gynaecological cases, was opened in June, 1926. In this institution there are 100 teaching beds and an organized out-



patient service which is of the greatest benefit to the undergraduate student. During the year 1930 the obstetrical service cared for 2,723 cases, with 2,645 confinements in the Hospital and 408 in the Out-patient Service, a total of 3,053. In the gynæcological section, 1,359 cases were admitted during the year.

There are seven resident physicians.

**The Montreal General Hospital** is a general hospital for the treatment of acute diseases and contains 404 beds. In 1930 there were 7,496 admissions to its wards. The large, reconstructed out-patient department, probably the finest in this country, received last year 149,740 visits. Many modern additions to the original buildings have been made, and recently a large biochemical laboratory has been erected and completely equipped.

There were 344 post-mortems during the year.

The number of resident physicians is 40.

The Dental Clinic of the University, completed in 1921, has 50 dental chairs with a large and varied clientele.

**The Western Division of the Montreal General Hospital—The Western General Hospital.** A hospital for the treatment of acute diseases, with 85 beds. It is hoped that this hospital will soon afford additional opportunities for teaching. The post-mortem and surgical material is now being used for teaching. During the year 1930 there were 1,847 admissions to the wards and 11,116 patients were treated in the out-patient department.

There were 68 autopsies during the year.

The number of resident physicians is 7.

**The Children's Memorial Hospital** has 200 public beds, and, in 1930, admitted 1,153 patients. The attendance at its out-door department totalled 11,738 patients. This hospital, while primarily for orthopædic cases, now admits all varieties of patients, and enables the students to get a broad conception of pædiatrics. Of special interest are the newly-built wards with cubicles, the Departments of Remedial Gymnastics, the Open-air Pavilion, and the well-equipped out-patient service.

There were 97 autopsies during the year.

The number of resident physicians is 7.

A summer course, lasting four weeks, has for several years enabled students and practitioners to become acquainted with many of the most important phases of modern pædiatrics.



The Montreal Foundling and Baby Hospital affords a large amount of clinical material for students, and gives special facilities for the consideration of infant feeding. There are 75 beds. In connection with this institution, there is a largely-attended Baby Welfare Clinic for mothers seeking advice as to the care of the normal child, and of themselves.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are 170 beds, and, in 1930, 1,326 patients were admitted to the hospital. There were 30 autopsies.

The number of resident physicians is 4.

The Protestant Hospital for the Insane at Verdun has 630 beds. It serves to instruct students in the diagnosis and treatment of the psychoses. Students are taken about the wards in groups, and are required to report on cases and discuss the general problems of psychiatry with the teachers. Occupational therapy is emphasized.

The Royal Edward Institute—a dispensary for tuberculosis—offers adequate material for teaching students, in groups, the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.



## LIBRARY

HONORARY LIBRARIAN:—DR. C. F. WYLDE.

ASSISTANTS:—

{	MISS C. DAVIDSON, B.A.
	MISS EDITH R. GORDON.
	MISS BEATRICE V. SIMON.

"The history of the Library is the history of the Faculty."

Professor Hall.

The Library occupies the central part of the Medical Building, the whole front of the second and third floors, as well as a portion of the first floor. On the third floor is the magnificent reading room, 76 x 24 feet, exceptionally well lighted, and capable of accommodating seventy-five readers. On this floor also are the journal room and private office. The second floor contains the stack room, the book stacks at present containing about 45,000 volumes, and having a total capacity of sixty thousand volumes; also three study rooms. On the first floor are the cataloguing rooms, offices and pamphlet room.

A special feature of the Library is the journal collection, and every effort is being made to complete this section as far as possible, and thus to increase the value of the reference department of the Library. Through the generosity of interested friends there is also a valuable collection of approximately one thousand volumes of early works on the History of Medicine, dating from the fifteenth century. These can be consulted at the Library.

A complete journal collection is listed in the Catalogue of Scientific Periodicals in Canadian Libraries, and also in the Union List of Serials, published by the W. H. Wilson Company.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other colleges showing proper credentials, and registered nurses. It is felt that graduates living at a distance are not aware of the fact that books may be borrowed from the Library on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during term from 9 a.m. to 9.30 p.m., except Saturdays, when it is closed at 5 p.m. After June 1st it is open from 9 a.m. to 5 p.m.; Saturdays, 9 a.m. to 1 p.m. During July and August it is closed on Saturdays.



## THE OSLER LIBRARY

LIBRARIAN:—W. W. FRANCIS.

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises about 7,600 volumes, occupies a large room, beautifully equipped, on the third floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works; and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue has been completed, indexed, and printed since his death ("Bibliotheca Osleriana," Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 136 books printed in the fifteenth century.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers, but the books may not be borrowed or removed from the Library.



## MEDICAL SOCIETIES

### 1. THE MCGILL MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

- (1) To transact all matters of business connected with the undergraduate body.
- (2) To stimulate interest along medical lines.
- (3) To assist students to express themselves in public with facility.
- (4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday, at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals, as well as the leading daily newspapers, are kept on file.

### 2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate and undergraduate members. Honorary members are selected from such teachers as are more particularly



interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Fourth and Fifth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

#### 1. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

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## FACULTY OF LAW

### GENERAL INFORMATION

#### COURSE OF STUDY

The Faculty offers a three-year course in Law, based mainly on the study of the Roman and Civil systems, the curriculum and timetable being arranged on the assumption that a student is devoting his entire time to his university work.

#### ADMISSION

Students who have successfully completed two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will have to satisfy the Faculty that they have attained an equivalent educational standard and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts and Science Faculty is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree. As the law stands at present, however, they cannot be admitted to the Bar or to the notarial profession in the Province of Quebec.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants of at least twenty-one years of age who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

Candidates for admission are required to interview the Secretary of the Faculty and to obtain permission to register from him.

#### FRENCH

The attention of students is directed to the necessity of being able to read French easily, as the greater number of the works to which they will be referred are in that language.



## REGISTRATION

All students must register in person at the office of the University Registrar between Monday, September 21st, and Wednesday, September 30th. First Year students who wish to consult the Dean personally with regard to their course should register not later than Friday, September 25th.

Students registering later than the prescribed dates will be required to pay a late registration fee of \$5.00 during the first week of the session and \$10.00 during the second. This will not be refunded, except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished.

## DEGREE

The degree granted in the Faculty is that of Bachelor of Civil Law (B.C.L.). The course covers three years.

No student under the age of 21 years will be eligible for a degree.

The D.C.L. degree is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree are given in the Announcement of that Faculty.

## MOOT COURTS

Under the supervision of the professors, moot courts are held from time to time during the session in order to afford students practice in the preparation and presentation of legal arguments. Regular attendance at these courts will receive credit as class-room work.

## LIBRARY

The Law Library of the University at present contains over 12,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom, and France are taken, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

The general Library of the University is also available for the use of Law students.

## OFFICE ATTENDANCE

The attention of students is directed to the amendment to the Bar Act passed at the 1925 session of the Quebec Legislature which reduces the period of clerkship to one year for students who have previously



obtained a recognized degree in Law. Advantage has been taken of this to reorganize the Faculty on a full-time basis. The final Bar examination may be taken as soon as the student has been admitted to the study of Law and has taken his B.C.L. degree. (For particulars as to Bar requirements, see page 416.)

#### EXAMINATIONS

Examinations will be held:—

- (a) At the end of the first session, covering the year's work.
- (b) At the end of the second session, covering the second year's work, the final examination in Roman and Constitutional Law on the work of both years being held at this time.
- (c) At the end of the course, on the work of the three years, except Roman Law, Constitutional Law and International Law.

Subject to the approval of the Faculty in each case, a student who has been prevented by illness from taking certain papers in the sessional examination may be permitted to take supplemental papers on the same subjects. A fee of \$5.00 will be payable in respect of each paper. No other supplemental examinations will be granted.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.



## CURRICULUM

## FIRST YEAR

## ROMAN LAW

Three hours throughout the session. Professor Corbett.

## CIVIL LAW

(a) Persons and Property.

Two hours throughout the session. Professor LeMesurier.

(b) Obligations.

Two hours throughout the session. Professor Howard.

## CRIMINAL LAW

One hour throughout the session. Professor Surveyer.

## CRIMINAL PROCEDURE

One hour throughout the session. Professor Surveyer.

## CONSTITUTIONAL LAW

One hour, one term. Professor Scott.

## INTERNATIONAL LAW

One hour throughout the session. Professor Corbett.

## SECOND YEAR

## ROMAN LAW

One hour throughout the session. Professor Corbett.

## CIVIL LAW

(a) Sale, agency, partnerships, privileges, hypothecs and registration.

Two hours throughout the session. Professor LeMesurier.

(b) Marriage covenants, lease and hire, prescription and minor contracts.

Two hours throughout the session. Professor Chipman.

(c) Gifts, wills, substitution and successions.

One hour throughout the session. Professor Scott.

## LEGAL HISTORY

One hour, one term. Professor Corbett.



## CONFLICT OF LAWS

One hour, one term.

Professor MacDougall.

## CIVIL PROCEDURE

Two hours, first term.

Professor Tyndale.

One hour, second term.

Mr. Abbott.

## CONSTITUTIONAL LAW

One hour, one term.

Professor Scott.

## MUNICIPAL LAW

One hour, one term.

Professor Scott.

## THIRD YEAR

## COMMERCIAL AND MARITIME LAW

(a) Corporations.

One hour throughout the session.

Mr. Bruneau.

(b) Introduction to the study of Commercial Law and Insurance.

One hour throughout the session.

Mr. Claxton.

(c) Negotiable instruments and banking.

One hour throughout the session.

Professor Scott.

(d) Maritime Law and Carriers.

One hour throughout the session.

Professor Scott.

## CIVIL LAW REVIEW

One hour throughout the session.

Professor LeMesurier.

## CIVIL PROCEDURE

Two hours, first term.

Mr. Abbott.

One hour, second term.

Professor Tyndale.

## EVIDENCE

One hour, one term.

Professor Wainwright.

## CRIMINAL LAW AND PROCEDURE

One hour, one term.

Professor Surveyer.

## COMPARATIVE LAW

One hour, one term.

Professor Surveyer.

## SPECIAL LECTURES

The Hon. Mr. Justice Mignault will deliver two special lectures in the course of each session.



## ADMISSION TO THE PRACTICE OF LAW IN QUEBEC

The attention of students who wish to be admitted to the Bar or to the notarial profession in Quebec is drawn to the following summary of the statutory provisions governing the practice of law in the Province:—

I. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO  
BECOME MEMBERS OF THE BAR

*N.B.—The articles are here abridged.*

R.S.Q., 1925, c. 210, Section 48.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations are held alternately in Montreal and Quebec every six months; namely, at Montreal on the second Tuesday of each January, and at Quebec on the first Tuesday of each July.

All information concerning these examinations can be obtained from the Secretary-Treasurer of the General Council.

Section 50.—Candidates must give notice, as prescribed by this article, at least one month before the time fixed for the examination to the Secretary of the section in which he has his domicile or in which he has resided for the past six months.

R.S.Q., 1925, c. 209, Section 2.—This section provides that candidates holding the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Letters, from any Canadian or British University are dispensed from the examination for admission to study. Such candidates are required to give the notice mentioned above.

R.S.Q., 1925, c. 210, Section 52 (as altered by by-law of the General Council).—On giving the notice prescribed by Section 50, the candidate pays the Secretary a fee of \$2.00, and makes a deposit of \$125.00 for a complete certificate of admission to study; of \$70.00 for a partial certificate of admission to study; and \$200.00 for admission to practice, which deposit, less \$30.00, is returned in case of his not being admitted.

Section 57.—To be admitted to practice, the student must be a British subject and must have studied regularly and without interruption during ordinary office hours, under indentures entered into before a notary, as clerk or student with a practising advocate during four years, *dating from the registration of the certificate of admission to study*. In the case of a student who has followed a regular law course in a university or college in this Province and taken a degree in law therein the term is reduced to three years, carried on concurrently with the law course, or to one year after having received the said degree.



The By-laws passed by the General Council of the Bar of the Province of Quebec provide as follows:—

Article 51.—A course of lectures on law given and followed at a university or law school of this Province, and the diploma or law degree conferred on students by such university or law school shall count with reference to the Bar Act only if the course of study hereinafter outlined has been effectively followed by the university or law school and by the holder of the diploma.

Article 52.—A regular law course in a university or law school of this Province consists of seven hundred and eighty-five lectures of one hour each. These lectures are given on the various subjects in the following proportions:—

ROMAN LAW:—103 lectures:—This course comprises an introduction to the study of law, with explanatory remarks and comments on the Institutes of Justinian and on the principal Roman juriconsults.

CIVIL, COMMERCIAL AND MARITIME LAWS:—413 lectures:—The course on these subjects must cover a period of at least three years. It comprises the history of French and Canadian law, explanatory remarks and comments on the Civil Code and on the statutes respecting commerce and shipping.

CIVIL PROCEDURE:—103 lectures:—This course must extend over at least two years. It comprises explanatory remarks and comments on the Code of Civil Procedure and of its statutory amendments, a study of the organization of the Civil Court of this Province and the history of the different judicial systems of the country; also the special modes of procedure provided by the statutes and the by-laws in general, as well as the Bar Act and the By-laws regarding the discipline of the Bar.

PUBLIC AND PRIVATE INTERNATIONAL LAW:—21 lectures:—This course comprises an historical outline, the sources of this law and of its subject matter, its objects (primary and secondary rights of sovereign states), rules of war, commercial and extradition treaties, etc., in force in Canada, as well as the rights and obligations of the citizens of the Province of Quebec and of Canada, and of aliens in the event of conflict of laws.

CRIMINAL LAW:—69 lectures:—This course comprises the history of Canadian criminal law, the organization of the criminal courts, criminal procedure, comments on the criminal law of the country, a comparative study of English and Canadian criminal law. The lectures shall extend over two years.



CONSTITUTIONAL AND ADMINISTRATIVE LAW:—41 lectures:—This course comprises an enquiry into the different constitutional enactments and public institutions of the country, the powers, the organization, the procedure of the Federal Parliament and of the Provincial Legislatures, the laws of education, and the Municipal Code.

COMPARATIVE LAW:—30 lectures:—This course comprises a concise enquiry into the English common law, and a general knowledge of the main principles underlying the civil and commercial laws of the other Provinces of Canada.

Article 53.—The candidate for admission to practice who has obtained a law degree from a university or law school of this Province, must file, together with this notice, a certificate from the Principal or Head of such university or law school establishing that he has followed a law course in such university or law school during at least three years, in conformity with the Bar Act, and, moreover, specifying the number of lectures he has actually attended in each subject comprised in the foregoing curriculum during each of the three years and during the three years as a whole.

Article 54.—The examiners must refuse to accept such degree as valid under the provisions of the Bar Act, if they are of the opinion that the course of study hereinabove outlined has not been effectually followed by the candidate.

## II. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME NOTARIES

For the regulations applicable to candidates for the notarial profession, see Revised Statutes of Quebec, 1925, ch. 211, Secs. 208-241.



## FACULTY OF DENTISTRY

### FOUNDATION AND HISTORY

The Dental Department of McGill University was established as a Department of the Faculty of Medicine in the autumn of 1903. At that time the didactic teaching and laboratory work were carried on in the lecture rooms and laboratories of the Medical Building, clinical instruction being given at the Dental Infirmary, a clinic conducted by the Dental Association of the Province of Quebec. This arrangement fulfilled the requirements of the Department for a time, but soon the need of separate quarters for didactic and laboratory instruction and also of improved clinical facilities was felt. These have been supplied, first, by the assignment to the Department of a portion of the east wing of the Medical Building, and, second, by the establishment of a clinic at the Montreal General Hospital.

The new quarters of the Faculty occupy the northern half of the first floor of the east wing of the Medical Building. Here are provided all the necessary lecture rooms and laboratories, as well as private rooms for the members of the staff. The laboratories are equipped with the latest apparatus and appliances for teaching practical dental operations.

The clinic at the Montreal General Hospital was established in connection with the out-patient department of the Hospital in the early part of the session 1908-09.

The rapid growth of the Faculty, however, soon made necessary the enlargement of the facilities for teaching Clinical Dentistry, and so in 1921 the University, acting conjointly with the Governors of the Montreal General Hospital, thoroughly remodelled the space used for the clinic, and in addition erected a new wing 80 ft. x 36 ft.—the entire wing being occupied by dental chairs and other equipment. This gives to the Faculty one of the most thoroughly equipped dental clinics on the Continent. In addition to the splendid equipment and facilities provided in the Hospital clinic, students of the Dental Faculty share with the other departments the advantage of the great Hospital with which it is connected, such as a splendid X-ray department and a well-managed pathological department. They also have the privileges of the surgical operating amphitheatre, and the Hospital anæsthetists are always available for operations.



### ENTRANCE REQUIREMENTS

Every candidate for admission to the First Year in the Faculty of Dentistry must have completed two full years in the Faculty of Arts of a recognized university, including lectures and laboratory work in *Chemistry* (Inorganic and Organic), *Physics* and *Biology*.

In the case of those who intend to practise in the *Province of Quebec* it is essential that the candidate should take at least the second of these two years in a recognized English University in this Province.

Courses specially designed to meet these requirements are offered in the Faculty of Arts and Science of McGill University, where a student may take the two years of study required, or the second of the two if he has satisfied the requirements of the first by Senior Matriculation, or otherwise.

Particulars of the Junior and Senior Matriculation Examinations are given on pages 83 and 92.

### PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not itself give a right to practise the profession of Dentistry. It is necessary to comply with the Dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its licence, and in all of them a certain standard of general education is insisted upon before the study of Dentistry may be begun. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their University course.*

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

\**Ontario*.—W. E. Wilmett, Toronto.

\**Nova Scotia*.—Geo. K. Thompson, D.D.S., Halifax.

\**New Brunswick*.—F. A. Godsoe, D.D.S., Saint John.

\**Prince Edward Island*.—J. S. Bagnall, D.D.S., Charlottetown.

\**Manitoba*.—H. F. Christie, D.D.S., 626 Somerset Block, Winnipeg.

\**Alberta*.—A. E. Hennigar, D.D.S., Herald Building, Calgary, Alta.

\**Saskatchewan*.—L. J. D. Faskin, Regina.

*Quebec*.—Dr. Denis Forest, 3632 Park Ave., Montreal.

*British Columbia*.—Albert Brighthouse, Vancouver.

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\* Members of the Dominion Dental Council.



## DOMINION DENTAL COUNCIL OF CANADA

Seven of the nine Canadian provinces (*i.e.*, all but Quebec and British Columbia) have entered into an agreement whereby the holder of a licence granted by the Dominion Dental Council may practice in any of the subscribing provinces. In order to obtain this licence a candidate must: (1) hold a matriculation certificate of the proper standard; (2) pass the examination set by the council, and (3) pay the local provincial registration fee.

The Secretary of the Dominion Dental Council is Major W. D. Cowan, M.P., Regina, Sask.

\* It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only and that the Faculty, while fully responsible of its obligations towards the student, does not hold itself bound to adhere absolutely for the whole term of a student's course to the conditions here laid down.



## COURSE FOR THE DEGREE OF D.D.S.\*

Candidates for the degree of D.D.S. must complete two years of preidental training in a College or Faculty of Arts, with Physics, Inorganic and Organic Chemistry and Biology as compulsory subjects, before entering upon the four-year course in this Faculty. The curriculum is as follows:—

## FIRST YEAR

Anatomy (human).	Metallurgy.
Dental Anatomy.	Prosthetic Technique.
Histology.	Operative Technique.
Physiology.	

## SECOND YEAR

Crown and Bridge Work.	Bacteriology.
Operative Technique.	Physiology.
Orthodontia.	Medicine.
Prosthetic Technique.	Biological Chemistry.

## THIRD YEAR

Crown and Bridge Work.	Pharmacology.
Dental History, Ethics and Office Management.	General Pathology.
Dental Jurisprudence.	Prosthetic Dentistry.
Dental Materia Medica and Therapeutics.	Dental Radiography.
Operative Dentistry.	General Anæsthesia.
Orthodontia.	Dental Surgery.
	Local Anæsthesia.
	Materia Medica.
	Dental Pathology.

## FOURTH YEAR

Operative Dentistry.	Oral Surgery.
Orthodontia.	Crown and Bridge Work.
Prosthetic Dentistry.	Oral Hygiene.

\* It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.



## EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

*A minimum of 50 per cent in each subject is required to pass, and 75 per cent for honours.*

*All examinations in each year must be passed before a student is allowed to advance to the next.*

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations are held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examination excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and must be accompanied by a fee of \$5.00 for each subject.



### QUALIFICATIONS FOR THE DEGREE

1. No one is admitted to the degree of Doctor of Dental Surgery who has not attended lectures for a period of four sessions in the Dental Faculty of this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, are required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examination must furnish testimonials of attendance on the branches of dental education mentioned on page 420, provided, however, that testimonials equivalent to, though not precisely the same as these, may be presented and accepted.



## COURSES OF LECTURES

## ANATOMY

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.

PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.

ASSOCIATE PROFESSOR OF ANATOMY:—JOHN BEATTIE.

LECTURER IN ANATOMY:—H. E. MACDERMOT.

LECTURER IN HISTOLOGY:—W. M. FISK.

SENIOR DEMONSTRATOR IN ANATOMY:—D. S. FORSTER.

DEMONSTRATORS IN ANATOMY:—

E. H. CAYFORD.  
R. R. FITZGERALD.  
R. M. H. POWER.  
P. G. SILVER.  
G. A. FLEET.  
A. ROSS.  
H. M. ELDER.  
W. W. RUDDICK.  
G. D. LITTLE.  
J. R. LOCHEAD.

The course covers two years, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. He is thus enabled to study in greater detail those parts which are related to his particular province, and he avoids spending undue time over regions which possess no special educational or professional value for him.

*First Year:*—The student takes the First Year medical course of three lectures and twelve hours' practical work a week during the first two terms, thus studying the body exclusive of the lower limb.

*Second Year:*—Opportunity is afforded of revising and studying in further detail the head and neck. A special dental course of advanced lectures on the face, palate and jaws is given.

#### Histology and Embryology.

*First Year:*—One lecture and one laboratory period per week for the First and Second Terms.

The course includes:—

(1) A survey of the general principles of embryology and of the early stages in the development of the human embryo.



(2) A detailed study of the fundamental tissues of the human body.

(3) A study of the development and microscopic structure of the organs and systems, in which the head and neck and the circulatory, digestive, and respiratory systems are considered in detail, whilst the remaining systems are treated in a more general way.

*Text-books*:—Gray's Practical Anatomy, Walmsley; *Histology*, Jordan, Noyes, Schafer's Elements, Bailey.

#### DEPARTMENT OF BACTERIOLOGY

PROFESSOR:—E. G. D. MURRAY.

LECTURERS:— $\left\{ \begin{array}{l} \text{W. W. BEATTIE.} \\ \text{FRED. SMITH.} \end{array} \right.$

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

#### COURSE 4.—*Medical Bacteriology and Immunity.*

30 lectures and 90 hours Practical Work, and a weekly Tutorial Class. First term.

Introductory and Historical Survey.

Elementary Morphology; Physiology and a limited classification of Pathogenic Bacteria.

Growth; Death, and Variation.

Sterilization Methods; their applications and where and how they may fail.

Culture Media and Cultural Methods.

The Process of Infection and Invasion; the epidemiology; the progress of the disease to healing and death; the tissue reaction, and the isolation and identification of the infecting organism in diseases **caused by:**

The Staphylococcus; the Streptococcus (including the Pneumococcus); the Gonococcus and Meningococcus; the Typhoid-Coli-Dysentery group; *Br. militensis*; *P. pestis*; *C. Tetani* and the Gas-gangrene bacilli; *Cor. diphtheriæ*; *My tuberculosis*; the Spirochaetes and the Filterable Viruses.

The Carrier Problem.

Arthropod Vectors.

Phagocytosis.

Agglutination; Precipitation; Bacteriolysis and Hæmolysis, and their applications.

The Wasserman Reaction.

Toxins and Antitoxins; illustrated by Diphtheria, Tetanus, and the Schick, Dick and Schultz-Charlton Reactions.

Prophylactic Vaccination.



## CROWN AND BRIDGE WORK

LECTURER:—W. C. BUSHELL.

DEMONSTRATOR:—PAUL R. MARCHAND.

A series of lectures and laboratory periods in the Third Year leading up to practical cases in the Fourth Year, accompanied by lectures and clinics.

The course embraces all phases of crown work, including porcelain jacket crowns, the preparation of teeth for their reception, the construction of the crown both as isolated units and as bridge abutments—principles of fixed bridgework, indications and contra-indications, stresses and strains, choice of abutments, construction of pontics.

Special attention is given to the use of porcelain in bridge construction—removable bridgework; the various attachments and methods of assemblings; a complete course in the casting technique; inlays, both as fillings and as bridge abutments; cavity preparations (direct and indirect); methods of obtaining patterns; the various casting techniques.

## DENTAL ANATOMY

LECTURER:—JOHNSTON W. ABRAHAM.

This course, given in connection with general anatomy in the First Year, aims at giving the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

The student is required to carve in ivory sixteen teeth, representing all the forms in the human mouth, which are then articulated anatomically. These are used later on in his work in operative dentistry.

Different section of extracted teeth are made, to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total of one hundred and thirty hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; four hours a week to demonstrating, modeling, carving, making sections, etc., one hundred and four hours.

*Text-book:*—Black.



## DENTAL HISTORY, ETHICS AND OFFICE MANAGEMENT

LECTURER:—CAMPBELL MORRIS.

**History:—**

This course is intended to give the student an intelligent conception of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

**Ethics:—**

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner, and himself.

**Office Management:—**

Under this head the business of the dentist's life will be considered. The question of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

## DENTAL JURISPRUDENCE

ASSOCIATE PROFESSOR:—F. R. SCOTT.

A discussion of the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, etc., are fully explained.

## DENTAL SURGERY

ASSOCIATE PROFESSOR:—A. L. WALSH.

Thirty lectures are given to the Junior Students in the above subject, which includes exodontia, cysts, fractures, and benign tumours, alveolectomy and apicoectomy. The Seniors are given clinics on practical cases and are required to complete one case during the year in any of the above, excepting exodontia.



## MATERIA MEDICA AND THERAPEUTICS

PROFESSOR:—FRED. G. HENRY.

In the Third Year a course of demonstrations and lectures in this subject is given, extending throughout the whole session. This comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances used in the treatment of diseased conditions of the dental organs and morbid conditions of the oral cavity, together with their various applications, doses, antidotes, and contraindications, with instruction in prescribing, etc. Anæsthesia and the various anæsthetics are also taken up, following that already given in the Second Year.

*Text-books:*—Hare, Buckley, Prinz; *Local Anæsthesia*, Arthur E. Smith.

## METALLURGY

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

This course is given to Dental students of the First Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

*The lecture course covers:—*

- (1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.
- (2) Methods of melting, casting and alloying metals in the laboratory.
- (3) Methods of extracting metals from their ores.
- (4) The nature and preparation of alloys, including amalgams.
- (5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminum, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extracting from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.
- (6) The manufacture, properties and uses of dental amalgams.



*Text-book*:—J. D. Hodgen, "Practical Dental Metallurgy."

*The laboratory course* includes experimental work with the metals; gold, silver, copper, lead, zinc, tin, aluminum, nickel, iron and steel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Mr. Sproule.

#### OPERATIVE DENTISTRY

PROFESSOR:—F. H. A. BAXTER.

ASSOCIATE PROFESSOR:—A. L. WALSH.

LECTURERS:— $\left\{ \begin{array}{l} \text{W. G. LEAHY.} \\ \text{LORN F. McRAE.} \end{array} \right.$

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. The course of lectures extends over two years and a half, and includes discussion of the treatment of caries; the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in operating upon the teeth. Clinics will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and, so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each student must provide himself with the instruments necessary for his own use, a list of which will be furnished. He is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend six weeks doing practical work in the Hospital Clinic.



## ORTHODONTIA

PROFESSOR:—A. W. McCLELLAND.

LECTURER:—GERALD FRANKLIN.

DEMONSTRATOR:—M. L. DONIGAN.

ASSISTANT DEMONSTRATOR:—A. R. WINN.

The course in this branch commences with the study of the dental organs during development and eruption.

Special attention is given to the temporary teeth and the influence they exert in directing the normal occlusion of their permanent successors. The student is directed to the importance of the study of the etiology of this subject, and its relation to the prevention and treatment of malocclusion. Cases deviating from the normal, typical of every variety met with in practice, are dealt with and a classification made based on the treatment required.

The different methods employed in correcting these conditions are fully demonstrated, together with the mechanical appliances used.

Ample clinical material is available at the Dental Clinic, where students in the final year are allotted cases, the treatment of which is carried on throughout the session.

*Text-books:*—Angle, Pullen, Dewey, McCoy.

## PATHOLOGY

PROFESSOR OF DENTAL PATHOLOGY:—FRED. G. HENRY.

PROFESSOR OF PATHOLOGY:—HORST OERTEL.

LECTURER AND DOUGLAS FELLOW IN PATHOLOGY:—W. H. CHASE.

**Dental Pathology.**

This course is given to the students of the Third Year, and includes a consideration of the various diseases of the enamel, dentine, dental pulp and peridental membrane, their symptomatology and treatment, also a consideration of abnormal conditions of the tissues of the oral cavity with a description of treatment and management of these diseases.

Special attention is also given to pathological condition of the nerve structures of the head and their connection with the diseased conditions of the dental tissues.

The mitigation of pain in dental operations receives special attention and the various means employed fully developed and explained, and such directions given as will enable the student to avoid methods and drugs harmful to the tissues.



## PHARMACY

PROFESSOR:—ALEX. B. J. MOORE.

The course in Materia Medica and Pharmacy is given in the Third Year.

This course of about twenty-five lectures and demonstrations covers pharmacognosy, therapeutics and toxicology.

Pharmacopœias—B.P., U.S.P., B.P.C., and various hospital formularies;

Drugs—All organic and inorganic chemicals, such as:—alkaloids—glucosides, essential oils, stearoptenes, mineral salts, coal tar and its derivatives, animal products, synthetics, their sources and medicinal properties;

Therapeutical classification of drugs, such as:—anæsthetics, anodynes, antiseptics, caustics, hypnotics, hæmostatics, counter-irritants, etc.

Toxicology—Toxic doses of potent drugs with chemical and therapeutical antidotes; toxic drugs, their action and administration;

Habit-forming drugs—cocaine, heroin, morphine, etc.;

Posology—

Prescription Writing—Various systems of prescribing, symbols, correct abbreviations, incompatibility;

Pharmacy—nomenclature, metrology, specific gravity, percentage solutions, sterilization;

Pharmaceutical Preparations—tinctures, pigments, spirits, collodions, hypodermic injections, mouth washes, dentifrices, fluid extracts, tablets, etc.;

Methods of Manufacture.

*Text-books:*—Dixon, Cushny, Prinz.

## PHYSIOLOGY

THE MORLEY DRAKE PROFESSOR OF PHYSIOLOGY:—JOHN TAIT.

RESEARCH PROFESSOR OF PHYSIOLOGY:—BORIS P. BABKIN.

ASSISTANT PROFESSOR:—N. GIBLIN.

DEMONSTRATOR:—W. H. FINNEY.

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear more particularly on the practice of dentistry.

*Text-books:*—Huxley's "Lessons in Elementary Physiology"; Thornton and Smart, "Human Physiology."



## PROSTHETIC DENTISTRY

PROFESSORS:— $\left\{ \begin{array}{l} \text{GEORGE S. CAMERON.} \\ \text{J. S. DOHAN.} \end{array} \right.$

LECTURER:—I. K. LOWRY.

The course in prosthetic dentistry embraces lectures illustrated by lantern slides, and practical work in the laboratory, under the supervision of the demonstrator of technics. It includes the preparation of the mouth for dentures, impressions, and the properties of materials used in the construction of artificial dentures. The student is required to construct the different forms commonly used. Attention is directed to the different functions to be performed by the denture in the restoration of the natural conditions as regards mastication, enunciation and the restoring of the features. Students entering the Second Year are required to complete ten days' laboratory technique work, which will begin on September 8th at 9 a.m.

*Text-book:*—Wilson.

## PROSTHETIC TREATMENT OF CLEFT PALATE

I. K. LOWRY.

Practical clinics are given to Senior students on cases as they come through the Montreal General Hospital. These cases are carried through in the presence of the Dental students.

## SURGERY

ASSISTANT PROFESSOR:—W. L. BARLOW.

The course comprises clinical and didactic lectures. All lectures and demonstrations are given in the wards and clinical theatre in the Outdoor Department of the Montreal General Hospital. Cases showing injuries and diseases of the mouth and jaws are demonstrated and the appropriate treatment shown, including operative procedures under local and general anaesthesia.

*Text-books:*—Oral Surgery, Blair and Ivy, 1923; Brophy's Oral Surgery; Dental Infections, Oral and Systematic, Weston Price, 2 Vols.



## CLINICAL INSTRUCTION

Clinical instruction is given in the Operating Theatre and Out-Patient Department and in the Dental Clinic of the Montreal General Hospital. Abundant opportunity is afforded in this institution for the study of diseased conditions of the mouth and jaws, and for watching operations in these regions. The Dental Clinic, established fifteen years ago by the Hospital authorities, proved a success from the outset, and ample material for clinical study is now provided. Twenty thousand patients were treated at this clinic during the past session.

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. The practical dental work is supervised by the Director of the clinic and his associates, four of whom are full-time members of the University staff. Anaesthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

## LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a section dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 9 p.m. during the session; Saturdays, 9 a.m. to 5 p.m.

## MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties.



## FACULTY OF MUSIC

### FACTS OF HISTORICAL INTEREST

- 1904, September 21st First day of teaching at the McGill University Conservatorium of Music.  
(Dr. C. A. E. Harris, Director.)
- 1904, October 14th Conservatorium formally opened by their Excellencies, Lord and Lady Minto, First Recital
- 1908, October Dr. Harry Crane Perrin takes up his duties as Director of the Conservatorium and first Professor of Music in McGill University.
- 1909, February 23rd First Orchestral Concert.
- 1910, February 17th First Choral Concert.
- 1910, April, May, June First Local Centre examination throughout the Dominion.
- 1910, June 9th First Mus. Bac. Degree conferred.
- 1911, May 12th First Mus. Doc. Degree conferred.
- 1917, Conservatorium endowed by Sir William Macdonald.
- 1918, May 1st Resignation (owing to illness) of Sir William Peterson, K.C.M.G., as Principal of the University.
- 1920, April 26th The Governors of the University constituted a Faculty of Music with Dr. Perrin as Dean of the Faculty.
- 1920, General Sir Arthur Currie, G.C.M.G., K.C.B., appointed Principal of the University.
- 1921, Two Music Scholarships founded as a memorial to the late Sir William Peterson.
- 1922, Two Music Scholarships founded as a memorial to the late Sir William Macdonald.
- 1923, Conservatorium building becomes the property of the University by deed of gift from Lady Strathcona in accordance with the wishes of her father, the late Lord Strathcona.
- 1927, March 9th Their Excellencies, Viscount and Lady Willingdon present at Beethoven Centenary Commemoration Orchestral Concert in Moyse Hall.



- |                     |  |
|---------------------|--|
| 1928, November 19th | Schubert Centenary Commemorative Orchestral Concert in Moyse Hall. |
| 1929, September     | Mr. Douglas Clarke takes up his duties as Director.                |
| 1930, September     | Mr. Douglas Clarke appointed Dean of Faculty of Music.             |



## PUBLIC EVENTS OF SESSION 1930-31

The chief public events of last session were:—

- 1930, September 24th Scholarships were awarded as follows:—  
 Peterson Memorial Scholarship—Alexander Brott.  
 Peterson Memorial Scholarship divided between Isidore Gralnick and Margaret Boehmer.  
 Macdonald Memorial Scholarship—Noel Brunet.  
 Macdonald Memorial Scholarship—Ivan McNiff.  
 Lindsay Scholarship—Eileen Singer.  
 Ellen Ballon Scholarship—Muriel Jackson.  
 Conservatorium Bursary—Mina Weinstein.
- 1930, October 26th Pianoforte Recital in Moyse Hall by Claude de Ville.
- 1930, November 2nd Violin recital by Norman Herschorn assisted by Geo. M. Brewer, in Moyse Hall.
- 1930, November 9th Concert by Students of the Conservatorium in Moyse Hall.
- 1930, November 15th Lecture by Dr. Edmund H. Fellowes on Elizabethan and Jacobean Periods in Moyse Hall.
- 1930, November 16th Concert by McGill Conservatorium String Quartet in Moyse Hall.
- 1930, November 19th Concert in Royal Victoria College by H. M. Chapel Savoy Choir.
- 1930, November 23rd Violin Recital in Moyse Hall by Harry Norris, assisted by Claude de Ville.
- 1930, November 30th Concert by McGill Conservatorium Wood Wind Quintet in Moyse Hall.
- 1930, December 1st Joint Recital in Moyse Hall by Esther Dale and Felix Salmond.
- 1930, December 7th Joint Recital in Moyse Hall by Maurice Ondereet and Douglas Clarke.
- 1930, December 14th Recital in Moyse Hall by J. Cameron Taylor.
- 1930, December 16th Concert by the Lerner String Quartet in Moyse Hall.
- 1931, January 26th Recital in Moyse Hall by John Goss.
- 1931, February 19th Students' Concert in the Conservatorium Hall.
- 1931, March 23rd Joint Recital by Norman Wilkes and Jeanne Dusseau.



**SESSIONAL ANNOUNCEMENT**

The work of the Conservatorium of Music for the season 1931-32 will begin on September 14th, 1931, and will end on June 11th, 1932. It consists of three terms of eleven weeks each, with an additional summer term of three weeks, viz.:—

- (a) September 14th to November 28th.
- (b) November 30th to February 27th (Christmas vacation, December 21st to January 2nd inclusive).
- (c) March 1st to May 22nd (Easter vacation, one week).
- (d) May 24th to June 11th (short summer term).

Lectures arranged in progressive courses are offered as forming part of a connected curriculum, leading to certificates and diplomas, as well as to degrees in Music in the University.

The lectures will begin in the first week of October and extend over three terms of ten week each, viz.:—

- (a) September 28th to December 5th.
- (b) December 7th to February 27th.
- (c) February 29th to May 14th.

The examinations in Montreal for certificates and diplomas will be held towards the end of the third term, i.e., from May 9th to May 21st. The Theoretical Examinations which precede the Practical Local Examinations will be held on April 29th.

**ADMISSION**

Students of the Conservatorium are admitted either as:—

**Regular Students**, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music or the Degree of Bachelor of Music in the University.

**Partial Students**, who, besides individual instruction in the one principal subject, have the privilege of attending certain classes. Instrumentalists are, at the discretion of the Director, assigned to certain of the following classes:—Theory, Harmony, History, Form and Analysis; Ensemble Playing. Vocalists are assigned to two of the following classes:—Theory, Sight-Singing, Elocution and Diction, Choral Class.

**Class Students**. Those wishing to attend lectures or classes only, in either theoretical or practical subjects.



**REQUIREMENTS FOR DEGREES AND DIPLOMAS**

(For Fees, see pages 143, 466.)

*For requirements for the degree of Doctor of Music, see page 478.*

**DEGREE OF BACHELOR OF MUSIC**

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).
3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c each.

**The Matriculation Examination**

The Matriculation Examination is held yearly, in June, at McGill University and at various centres throughout the Dominion. There is also an examination held in September, but at McGill University only. Candidates for musical degrees are examined in the following:—

1. English (two papers).
2. History (one paper).
3. Two of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Algebra or Geometry (one paper).
5. Music (musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh)—one paper. The paper set is that of the Senior Grade of the local theoretical examination in Music and must be taken by the candidate at the regular examinations held by the Conservatorium in May.



Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University. Before being admitted to Undergraduate courses in Music, candidates must satisfy the Dean of the Faculty of Music that they are sufficiently advanced in their chief and second practical studies.

The requirements for examination in the chief practical subject are those of the Senior Local Examination for the current year. In the second practical subject a Junior or even an Elementary grade suffices. If the candidate has talent for and elects to take Composition during the Mus. Bac. course, the Intermediate Grade in one practical subject is sufficient.

#### First Examination in Music

- (a) Harmony in three and four parts.
- (b) Strict Counterpoint up to three parts, and answers to Fugue subjects.
- (c) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on form shown in the works of the classic composers.
- (d) General outlines of musical history.
- (e) Chief and second practical study. One of these may take the form of the composition of a song or songs, *or* a miniature suite for a solo instrument or any combination of instruments.
- (f) Viva voce.

#### Second Examination in Music

- (a) Harmony in not more than four parts.
- (b) Counterpoint (strict and free) in not more than four parts.
- (c) Canon in two parts and fugal exposition up to four parts.
- (d) History of music from the 16th century to the present day.
- (e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.
- (f) Elementary knowledge of acoustics *or* physiology of the voice.
- (g) Chief and second practical study, *or*, instead of one of these, the composition of:—



(1) A movement in sonata form for pianoforte (or piano and violin, or any other combination),

or

(2) A choral movement with independent accompaniment,

or

(3) A suite for strings.

(h) Viva voce.

The possession of the Diploma of Licentiate of Music obtained either under Class I or Class III from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. Bac., and, accordingly, candidates can proceed direct to the Final Examination, provided that they have matriculated.

#### Final Examination in Music

(a) Harmony up to five parts.

(b) Free Counterpoint, up to five parts, in 16th century style.

(c) Double Counterpoint in 8ve, 10th and 12th.

(d) Canon and fugue in three and four parts.

(e) History of music from the earliest time to the present.

(f) Form and analysis. Knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schuman's and Brahms' Songs; an Opera or an Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner. Candidates must at least three months before the examinations, obtain from the Secretary of the Faculty of Music a complete list of the works upon which the examination papers in this subject will be based.

(g) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight of a short excerpt from an easy score of a classic composer.

(h) A composition to be sent in by the candidate, to be received by the Secretary of the Examining Board not later than the last day of the second week in April, containing four-part chorus, a solo or duet, an unaccompanied quartet and a four-part fugue. The whole work (except the quartet) must be scored for stringed instruments in such a way as to show considerable independence between voices and instruments. If preferred, the composition may take the form of a string quartet or a piece of chamber music for not less than four instruments containing at least three movements.

(i) Viva voce.



## REGULATIONS FOR THE DIPLOMA OF LICENTIATE OF MUSIC

(For Fees, see page 143.)

Candidates may elect to be examined either in:—

Class 1—Theoretical Subjects and Composition, or

Class 2—Practical Subjects as Performers, or as

Class 3—Teachers in both Theory and Practice.

The following are the requirements of each branch:—

## CLASS 1—THEORETICAL SUBJECTS AND COMPOSITION

## First Examination

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) Harmony in three and four parts up to and including chords of the ninth, passing notes and suspensions; also the Harmonization of a Melody.

(c) Counterpoint in two parts.

(d) Viva voce examination in rudimentary Composition and Extemporization.

N.B.—Candidates who produce certificates of having passed in the highest Grade of the theoretical local examinations, will be excused all but the last test, which can be taken at the same time as the second examination.

## Second Examination

Requirements a, b, c, and d are the same as those for the First Examination for Mus. Bac. (See page 440.)

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination), or an arrangement for S.A.T.B. (unaccompanied) or three female voices (accompanied or unaccompanied) of any genuine folk-song. The parts must show character and independence. The M.S. must be in hands of the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal, not later than the last day of the second week in April.

## Third Examination

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. Bac. (See page 440.)



(f) Practical work on pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and pianoforte, or any other combination); *or* (2) a Chorus with independent accompaniment; *or* (3) a Suite for Strings. This must be received by the Secretary not later than the last day of the second week in April.

(h) Viva voce.

## CLASS 2.—PRACTICAL SUBJECTS AS PERFORMERS

### First Examination

Candidates are required to pass in the following subjects:—

- (a) Rudiments of Music, including Sight Reading and Ear Tests.
- (b) Harmony in three and four parts up to and including chords of the ninth, passing notes and suspensions, and harmonization of a melody.
- (c) Counterpoint in two and three parts.
- (d) General outlines of history.
- (e) Easy Transposition Tests (for instrumentalists only).
- (f) Diction in respect of Modern Languages (for singers only).
- (g) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations. Candidates will be asked questions on the form of the works presented, as well as questions relating to keys and modulations.

### Second Examination (Semi-Final)

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, are found under separate headings.

#### PIANOFORTE

(No written examination.)

#### 1. Scales.

Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, and 6th; also in double 3rds and double 8ves.

The candidates must be prepared to play all the above-mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch.



2. *Arpeggios.*

Common chords, with hands either an 8ve, 3rd, 6th, or 10th apart, in similar and contrary motion, also in double octaves, legato and staccato, beginning on either the highest or lowest notes; Dominant and Diminished 7ths in similar motion an octave apart, in contrary motion commencing either on the same note and working outwards, or on the extreme notes and working inwards. Also double octaves.

3. *Reading at Sight.*4. *Transposition.*

Of a short passage, a semi-tone above or below.

5. *Performance.* (Extra marks will be given for playing from memory.)

- (a) One of the following Preludes and Fugues:—  
 Bk. I. B flat major, B flat minor, E minor. } ...J. S. BACH  
 Bk. II. E major, D minor. }

- (b) Fifteen variations with Fugue in E flat (Op. 35),  
 or  
 Thirty-two variations, C minor (Op. 191). } BEETHOVEN

- (c) Any one of the Novellettes, except No. 1.....SCHUMANN

- (d) Etudes: Op. 25, Nos. 2 or 3 or 7  
 or  
 Impromptu in F sharp major. } .....CHOPIN

- (e) Minstrels and La cathédrale engloutie.....DEBUSSY

or  
 Island Spell.....JOHN IRELAND

or  
 Kaleidoscope .....GOOSSENS

- (f) A piece of the candidate's own choice.

Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.



## VIOLIN

(No written examination.)

1. *Scales.*

Any major scale, selected by the examiners in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves with various bowings. Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

All major and minor common chords, dominant 7ths, and diminished 7ths in three octaves. No. 7 from Sevcik Violin School, Op. 1, Part III, may be presented for this test.

3. *Reading at Sight.*4. *Performance.*

Candidates must prepare any two Etudes from each of the following composers:—Kreutzer, Fiorillo, Rovelli, Gaviniès, and Rode, and also play one of the following Sonatas:—

Sonata in G (Op. 78).

Sonata in A (Op. 100).

Sonata in D minor (Op. 108).

} ..... BRAHMS

5. *Questions.*

Questions will be asked on the general outlines of form shown in the studies and pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

## VIOLONCELLO

(No written examination.)

1. *Scales.*

Major, minor (melodic form), and chromatic scales in all keys.

2. *Arpeggios.*

Studies Nos. 10 and 15.....J. L. DUPONT

Any two studies.....DOTZAUER

(From 24 Daily Exercises. Augener.)



3. *Reading at Sight.*4. *Performance.*

- (a) Suite No. 1.....J. S. BACH
- (b) Sonata in E minor (Op. 38).....BRAHMS  
or  
Sonata in F (Op. 99).....BRAHMS  
or  
Sonata in A major (Op. 69).....BEETHOVEN
- (c) Also any two of the following pieces:—  
Seven Variations on a Theme from "The Magic  
Flute" (Op. 66).....MOZART  
Two Poems .....HUGO ANSON  
(Oxford University Press.)  
Slumber Song (arr. Harvey Grace).....BACH  
(Oxford University Press.)  
Five Irish Folk Tunes.....HOWARD FERGUSON  
(Oxford University Press.)

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

## VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

Requirements will be forwarded to candidates on application to the Secretary, 677 Sherbrooke Street West, Montreal.

## ORGAN

(No written examination.)

1. *Scales.*

- (a) Manuals only (with both hands).
- (b) Pedals only.
- (c) One hand only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.
- In the case of (a) and (c) contrary motion may be required.



2. *Arpeggios.*

- (a) For pedals through two 8ves; common chords, major and minor, in keys of C, D flat, E flat, E, and F.
- (b) One hand and pedals combined, in contrary motion.

3. *Reading at Sight.*4. *Transposition.*

Of a short passage, a semitone above or below.

5. *Performance of either List A or List B.**List A.*

- Fugue in G (Jig).....BACH  
(Vol. XII, Novello.)  
Pièces Héroïque .....CÉSAR FRANCK  
Prelude on a Theme by Tallis.....HAROLD DARKE

*List B.*

- Toccatà and Fugue in D minor.....BACH  
Choral Prelude on the Old 104th.....PARRY  
(The pedal tune to be played in octaves)  
Rhapsody No. 1 in D flat.....HOWELLS

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

## SINGING

(No written examination.)

1. *Scales and Technical Exercises.*

Major, minor, and chromatic scales at varying degrees of speed.  
(For example, see Randegger's *Singing Primer*, pages 38, 41 and 48.) Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

See Randegger's *Singing Primer*, pages 102, 104 and 107.



3. *Reading at Sight.*4. *Performance.*

## Studies.

Soprano or Tenor—Any two from No. 1 to No. 17, Fourth Series.

Part I. 30 Solfeggios.....VITTORIO RICCI

Alto or Bass—Any two from No. 1 to No. 17, Fourth Series.

Part II. 30 Solfeggios.....VITTORIO RICCI

Medium Voices—Any two from No. 1 to No. 17, Fourth Series.

Part III. 30 Solfeggios.....VITTORIO RICCI

The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

(a) One or two specimens of Recitative.

(b) Two solos from an Oratorio or Oratorios,  
or  
Two solos from an Opera or Operas.

(c) One song by any of the following composers:—SCHUMANN, SCHUBERT, FRANZ, BRAHMS, LOEWE, PARRY, ELGAR, WOLF, HENSCHEL, STANFORD, SCOTT, IRELAND.

(d) One song by any of the following composers:—BALAKIREFF, GRIEG, HAHN, SIBELIUS, ARMSTRONG, GIBBS, HOLST, VAUGHAN-WILLIAMS.

(e) One or two specimens of Folk Song from "A selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

N.B.—The selections made will be taken as an indication of the candidate's taste.

5. *Questions.*

Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.

Questions may be asked on the more advanced rudiments of music.

NOTE.—Read final paragraphs, sec. 4, page 27.

### Third Examination (Final)

The requirements for candidates whose chief study is either Piano-forte, or Violin, or Violoncello, or Organ, or Singing, are found under separate headings. There is no written examination.



## PIANOFORTE

1. *Transposition Test.*

The transposition of a passage a tone above or below.

2. *Sight Reading Test.*3. *Questions.*

Questions will be asked on musical history from the 16th century to the present day.

4. *Performance.*

One of the specified items from each group to be prepared:

- |  |   |        |          |            |
|--|---|--------|----------|------------|
| (a) Prelude and Fugue in F sharp major | } | Bk. I  | }...BACH |            |
| Prelude and Fugue in C sharp major     |   |        |          |            |
| Prelude and Fugue in A flat major      | } | Bk. II |          |            |
| Prelude and Fugue in D sharp minor     |   |        |          |            |
| Prelude and Fugue in C sharp minor     |   |        |          |            |
| French Suites Nos. 4, 5 or 6           |   |        |          |            |
| Fantasia and Fugue in G minor.....     |   |        |          | BACH-LISZT |

- |                                     |   |             |
|-------------------------------------|---|-------------|
| (b) Any <i>two</i> of the following | } | .....CHOPIN |
| Etudes: Op. 10, Nos. 1, 2, 7, 8     |   |             |
| Op. 25, Nos. 6, 8, 10, 11           |   |             |

- |                            |   |                |
|----------------------------|---|----------------|
| (c) Concerto No. 5, Op. 73 | } | .....BEETHOVEN |
| Sonata in E, Op. 109       |   |                |
| Sonata in E flat, Op. 81a  |   |                |
| Sonata in B minor .....    |   |                |

- |  |           |
|--|-----------|
| (d) Variations on "O Mistress Mine" (Novello)..... | BYRD      |
| Variations in A.....                               | GLAZOUNOW |
| (Omitting variations 4, 5, 12.)                    |           |

- |                                   |          |
|-----------------------------------|----------|
| Ballade in D major.....           | BRAHMS   |
| Scherzo in E flat minor.....      | BRAHMS   |
| Etudes Symphoniques               |          |
| (Theme and any three Etudes)..... | SCHUMANN |

- |                             |         |
|-----------------------------|---------|
| (e) Reflets dans l'eau..... | DEBUSSY |
| L'Isle Joyeuse .....        | DEBUSSY |
| Poissons d'Or .....         | DEBUSSY |

*Special Note.*—In place of a selection from sections (d) and (e) the candidates may present César Franck's Prelude, Choral and Fugue.



## (e) Continued.

Ondine .....	RAVEL
Sonatine .....	RAVEL
Rhapsody .....	JOHN IRELAND
A Reel, No. 4 of	} .....
Four Irish Dances	
(Stainer & Bell)	
	STANFORD-GRAINGER

## (f) A piece of the candidate's own choice.

NOTE.—Candidates must be prepared to play some, if not all, of these from memory.

5. *Short Examination in Second Study.*

Certificates gained in any of the three higher grades of the local practical examinations exempt candidates from this test, whether the subject chosen is Organ or Violin, or Violoncello, or Singing.

## VIOLIN

1. *Sight Reading Test.*2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day.

3. *Performance.*

One piece to be selected from each of the following groups:—

- (a) Chaconne ..... BACH  
 Sonata in G minor ..... BACH  
 (For violin alone, Prelude and Fugue only.)
- (b) Sonata in G major, Op. 30 ..... BEETHOVEN  
 Sonata ..... DEBUSSY  
 Sonata ..... RAVEL  
 Sonata in A ..... CÉSAR FRANCK  
 Sonata in A minor ..... JOHN IRELAND  
 (Winthrop Rogers.)
- (c) Concerto (last movement) ..... BRAHMS  
 Concerto (first movement) ..... ELGAR  
 Concerto in D minor (first two movements) ..... MAX BRUCH
- (d) Spanish Suite:  
 Cancion; Jota; Polo; Asturiana ..... DE FALLA  
 Nigun—Improvisation ..... ERNEST BLOCH  
 La Fontaine d'Arethuse ..... SZYMANOWSKI



4. *Short Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations in pianoforte exempt candidates from this test.

## VIOLONCELLO

1. *Reading at Sight.*2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day.

3. *Performance.*

Sonata in D (for 'cello alone).....DONALD TOVEY

Sonata in E minor (Op. 38).....BRAHMS  
(1st movement.)

Spanish Nocturne.....E. GOOSSENS  
(Pub. by Hawkes & Son.)

Concerto (Op. 85) .....ELGAR

Sonata (last movement) .....DELIUS

4. *Short Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test.

## ORGAN

1. *Transposition and Modulation Tests.*

The transposition of a passage into another key not exceeding a tone above or below. Modulation.—Candidates are advised to make their modulation musically and not only mathematically correct.

2. *Sight Reading Test.*3. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day.



4. *Performance.*

Of one piece from each of the following lists:—

- (a) Prelude and Fugue in B minor.....BACH  
(Novello; Bk. VII.)  
Passacaglia and Fugue in C minor.....BACH  
Sonata on the 94th Psalm.....REUBKE  
Fantasia and Fugue in E minor.....KREBS
- (b) Sonata in D flat.....RHEINBERGER  
Sonata in C sharp minor .....HARWOOD  
Concerto No. 4 (Second Set).....HANDEL  
(1st movement only.)  
(Oxford Univ. Press.)  
Sonata in D minor (No. 6).....MENDELSSOHN  
(Choral and Variations only.)
- (c) Andante and Variations (Op. 46).....SCHUMANN  
Prelude, Fugue and Variation.....CÉSAR FRANCK  
Paeon .....BASIL HARWOOD  
Choral Fantasia (No. 1) on "O God Our Help".....PARRY

5. *Short Extemporization on a Given Theme.*

Optional test.

6. *Short Examination in Second Study.*

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test, whether the subject chosen is either Pianoforte, or Violin, or Violoncello, or Singing.

## SINGING

1. *Performance.*(a) *Studies.*

Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part I, of 30 Solfeggi.....VITTORIO RICCI  
Alto or Bass—Any two from No. 18 to the end of the Fourth Series, Part II, of 30 Solfeggios.....VITTORIO RICCI  
Medium Voices—Any two from No. 18 to the end of the Fourth Series, Part III, of 30 Solfeggios.....VITTORIO RICCI

## (b) The solo work from part of an Opera (an act or scene), or the solo work from a whole Oratorio.

## (c) Songs in various languages to exemplify proficiency in diction.



2. *Sight Reading Test.*3. *Questions on Musical History from the 16th century to the present day.*4. *Chief Study.*

The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to specify satisfactorily other work on which any individual candidate will be examined. The Examination Board is prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate will, after examination, be awarded the Diploma:—

- (a) As soloist for Concert Work only.
- (b) As soloist for Light Opera.
- (c) As soloist for Grand Opera.
- (d) As soloist for Oratorio.
- (e) As soloist for a combination of any of these.

Candidates must, *after passing the Second Examination*, submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

5. *Second Study (which must be the Pianoforte).*

Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte exempt candidates from this test.

The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination, together with the reading of a song accompaniment at first sight, will be accepted as second study.

## CLASS 3. TEACHERS EXAMINATION. (THEORY AND PRACTICE).

**First Examination**

(Partly written and partly viva voce)

- 1. Advanced Rudiments, including sight-reading and ear tests.
- 2. A knowledge of harmony up to chords of the 7th. Analysis of given chords or passages, and harmonization of an easy melody and figured bass.



### 3. Chief Study.

Candidates will be expected to show sufficient executive ability to perform the technical work, studies and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Senior Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

N.B.—Sight reading tests and ear tests will be given in each part of this examination.

### Second Examination (Semi-Final)

(Partly written and partly viva voce)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes. Special attention is paid to the three-part writing.
2. Counterpoint in two parts.
3. General outlines of Musical History.
4. The principles of Elementary Form and Analysis.
5. Chief Study.

The requirements for this are the same as for the Semi-Final Performers' Licentiate (see pages 443 to 448).

### 6. Second Study.

The requirements are similar to those of the Senior Grade of the local examinations.

If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

### Third Examination (Final)

(Written Examination)

1. Harmony and Counterpoint (Strict and Free) in not more than four parts.
2. Fugal Exposition in three parts.



3. History of Music from the 16th century to the present day.
4. Form and Analysis.
5. Some acquaintance with the principles either of the Physiology of the Voice or of Acoustics.
6. A paper on the Art of Teaching of the candidate's chief subject.

*Special Note.*—This paper will consist of *set questions* based on the following:—

Candidates will be required to give names of Studies and Pieces with their Composers from classical or standard works, of different degrees of difficulty suitable for special purposes.

To answer questions on method and procedure in teaching.

To finger and phrase given passages.

Questions on Rhythm, Technique.

To give outlines of work for specific periods of Study.

Memorization and Appreciation.

To show such general knowledge, both musical and technical, as might be expected of a reasonably equipped music teacher.

### Viva Voce Examination

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

#### PIANOFORTE

1. (a) To demonstrate method of instruction as regards posture, finger-training, wrist and arm action, etc.
- (b) To illustrate gradations of touch.
- (c) To differentiate between mechanical and æsthetic expression.
- (d) To explain the principles of fingering, and, if required, to finger passages.
- (e) To distinguish between use and misuse of pedals.
- (f) To illustrate good part playing.

If thought necessary by the examiner, a student (not a pupil of the candidate) will be in attendance, so that the candidate may more easily and effectually demonstrate his or her ability to deal in a practical manner with the above points, and any others which may occur.



## 2. Candidates must be prepared to play the following:—

- |   |   |                |
|---|---|----------------|
| (a) French Suite, No. 5 in G, or<br>Prelude and Fugue in E major (Bk. 2)                      | } | .....BACH      |
| (b) Sonata in D major (K. 576)  |   | .....MOZART    |
| or Sonata in E flat (Op. 7)   | } | .....BEETHOVEN |
| or Op. 53, Op. 54 or Op. 57   |   |                |
| (c) Any two Ballades.....   |   | BRAHMS         |
| or any two Intermezzi.....  |   | BRAHMS         |
| or any two Rhapsodies.....  |   | BRAHMS         |
| (d) Any one of the Etudes.....  |   | CHOPIN         |
| and any one of Schubert's Four Impromptus, Op. 90,  |   |                |
| or Three Pieces.....  |   | LEO LIVEN'S    |
| (Anglo-French Music Co.)  |   |                |
| or Fairy Tales.....   |   | MEDTNER        |
| (e) A piece of the candidate's own choice by a modern English,<br>French or Russian Composer. |   |                |

## 3. Sight Reading Test.

## VIOLIN

1. To demonstrate method of finger-training and bowing, posture and fingering, also to finger and bow certain passages, if required.
2. Should the Examiner desire it, the candidate must be prepared to give a student (who is not a pupil of the candidate) a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.
3. To differentiate between mechanical and æsthetic expression.
4. To show ability to accompany on the pianoforte.
5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORELLO, RODE, ROVELLI and GAVINES.
6. Performance.
  - (a) Any of the ten  
Sonatas for Violin and Pianoforte.....BEETHOVEN  
or Sonata in A .....VIVALDI  
or Sonata in A minor (Op. 105).....SCHUMANN  
or Sonata in A .....BRAHMS



- (b) Any one of the following Concertos may be selected by the candidate:—

BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAËNS in B minor  
BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.

- (c) Romance in E minor.....SINDING

or

Havannaise .....SAINT-SAËNS

or

Rhapsodie Piedmontèse .....SINIGAGLIA

# 7. Sight Reading Test.

## VIOLONCELLO

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play:—

Nos. 11, 16 and 20 Studies.....DUPORT

And any two Studies.....DOTZAUER

(From 24 Daily Studies.)

Any one of the five Sonatas (selected by the candidate). BEETHOVEN

To show a general knowledge of the Six Suites.....J. S. BACH

Symphonic Variations .....BOËLLMAN

Romance .....WAGNER-POPPER

## ORGAN

1. To demonstrate method of instruction for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.
2. To answer questions as to the causes of difference of tone between the various stops.
3. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.
4. To be prepared to play the following pieces:—  
A Sonata by BACH, also a Sonata by either MENDELSSOHN or RHEINBERGER or MERKEL, and two pieces by modern composers (one should be British) selected by the candidate.
5. Sight Reading Test.
6. To extemporize and transpose.



## SINGING

1. To demonstrate method of instruction in proper methods of breathing, tone, attack, unevenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.
2. To read (at the pianoforte) a simple accompaniment at sight, and also transpose within the limits of a major second above or below.
3. In passages given by the examiner, to phrase or insert breath marks.
4. Candidates must be prepared to give illustrations of Recitative, Solo singing in Opera or Oratorio, and to sing one song of any one composer in each of the following three groups:—
  - (a) BACH, HANDEL, MOZART, BEETHOVEN, SCHUBERT, SCHUMANN.
  - (b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.
  - (c) BALAKIREFF, GRIEG, HAHN and DEBUSSY, DELIUS, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK, RAVEL.
  - (d) Any Folk Song from "A Selection of Collected Folk Songs" arr. by C. SHARP and VAUGHAN-WILLIAMS (Novello).
5. Sight Reading Test (Vocal).



## LOCAL CENTRE EXAMINATIONS IN MUSIC

(For Centres with Hon. Local Representatives, see pp. 462 to 465.)

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it grants Degrees in Music and a Diploma of Licentiate, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Mr. Douglas Clark, Dean of the Faculty of Music and Director of the Conservatorium.

## GENERAL REGULATIONS

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 677 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local hon. representatives or local hon. secretaries. (See pages 462 to 465.)
2. A local representative of McGill University will supervise the conduct of the theoretical examinations at each centre. All papers will be sent to McGill University itself, and, in the case of the local examinations, examined by a Board consisting of at least three examiners.
3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.
4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the School.
5. Similar arrangements may be made with regard to Class Singing.
6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, which must, however, reach him at least five days before such examination, to transfer a candidate to the next examination without further fee.
7. Examinations will be arranged by the Secretary when required, and new centres formed where not less than ten candidates are entered, provided the amount of fees is sufficient to meet the expenses incurred.



## ADVICE TO TEACHERS AND CANDIDATES

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Lowest or Primary grade and leading on through the Diploma examination for Licentiate of Music to that for the Degree of Mus. Bac.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use music of a lower grade at the beginning of the winter, and should not begin too early with the actual grade book selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

4. Books for past years, which contain well-assorted standard studies and pieces, are found useful by teachers and pupils alike, whether for repertoire study, reading at sight, or analysis purposes. Price, 50c. per book, obtainable from the General Secretary.

## REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES

1. Theory examinations are held throughout the Dominion about May 1st. Candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, if unsuccessful in the latter, can still proceed to the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination. A special charge for this supplemental examination is found under fees on page 466.

2. Practical examinations are held during May and June.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the examination fee, MUST REACH THE SECRETARY IN MONTREAL ON OR BEFORE MARCH 30th, 1932.

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects. They are of two kinds in each grade: (a) Distinction; (b) Pass.



N.B.—In the case of a candidate failing the theoretical but passing the practical part of an examination, *no* result will be published, neither will a certificate be granted, until the theoretical part has also been passed.

5. These certificates do not entitle the holders to append any letters to their names.
6. The maximum number of marks obtainable in each practical subject is 100, of which 60 entitles to a Pass and 80 to a Distinction.
7. The maximum number of marks obtainable in each theoretical subject is 100, of which 60 entitles to a Pass and 80 to a Distinction.
8. No special text-books are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. For the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from the various local music dealers.
9. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.
10. Candidates entering for practical subjects must, in all grades except the two last (Elementary and Primary), previously work a theory paper of the preceding lower grade during the same year or the preceding year.
11. Only one candidate at a time is allowed to be in the examination room for practical examinations.
12. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only to accompany the songs and pieces.
13. The examiner's decision is final, and cannot be reconsidered.
14. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificates must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate, if required.
15. The possession of certain certificates gained in the Local Examinations will entitle the holders to claim exemption from certain parts of the examinations for the Diploma of Licentiate in Music, should they at a later date decide to proceed to the higher examinations for that Diploma.



## LOCAL CENTRES

The following places have been adopted as centres for public examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as some of those for Degrees and Diplomas, are held at these centres:—

Amherst .....	Hon. Representative: Rev. F. L. Orchard, 1 Rupert St. Hon. Secretary: Mrs. Geo. R. Shiers, 35 Roby St.
Assiniboia .....	Hon. Representative: W. E. Hay, Esq., Superintendent of Schools.
Brandon .....	Hon. Representative: Principal of Brandon College Institute.
Brockville .....	Hon. Representative: Rev. Dr. Whalley, The Rectory, Park St. Hon. Secretary: Mrs. M. MacOdrum, West Pine St.
Calgary .....	Hon. Representative: A. Calhoun, Esq., City Librarian, Public Library. Hon. Secretary: George E. Bower, Esq., L.Mus. (McGill), 1036 Fifth Ave. W.
Campbellton .....	Hon. Representative: Judge F. F. Matheson.
Charlottetown .....	Hon. Secretary: W. E. Fletcher, Esq., 63 Upper Prince St.
Cranbrook .....	Hon. Representative: Principal of the High School. Hon. Secretary: Mrs. D. Finlayson.
Edmonton .....	Hon. Representative: Hon. A. C. Rutherford, 11153 Saskatchewan Drive. Hon. Secretary: Mrs. O. J. Walker, 11103 Saskatchewan Drive.
Fernie .....	Hon. Representative: Mrs. H. J. Johnson. Hon. Secretary: Miss S. E. West.
Fort Qu'Appelle .....	Hon. Representative: W. H. Thompson, Esq.
Fredericton .....	Hon. Representative: Dr. H. B. Bridges, Principal of the Normal School. Hon. Secretary: W. J. Smith, Esq., A.R.C.O., 679 Union St.
Glace Bay .....	Hon. Representative: Rev. C. R. F. Mc- Lennan, 16 York St. Hon. Secretary: Miss B. McGregor.



- Gladstone ..... Hon. Representative: Dr. E. H. Whelpley.  
Hon. Secretary: David B. McHardy, Esq.,  
200 Manderville St., Winnipeg.
- Granby ..... Hon. Representative: Ven. Archdeacon Long-  
hurst.  
Hon. Secretary: Miss Gertrude Wallace,  
L.Mus. (McGill).
- Halifax ..... Hon. Representative: Rev. S. H. Prince,  
Cobourg Road.  
Hon. Secretary: Miss Ada Hoyt, 3 College  
St.
- Indian Head ..... Hon. Representative: Mrs. H. G. W. Wilson.  
Hon. Secretary: Cecil C. Halleran, Esq.,  
L.Mus. (McGill).
- Kamloops ..... Honorary Secretary: Miss Bertha Dillon,  
Box 716.
- Kentville ..... Hon. Representative: Rev. A. R. Donahoe.  
Hon. Secretary: Mrs. S. L. Cross.
- Kerrobert ..... Hon. Representative: J. M. Hanbridge, Esq.,  
Barrister.  
Hon. Secretary: Mrs. R. H. Johnston, Box  
125.
- Iroquois Falls ..... } Hon. Representative: C. Cameron, Esq.  
and }  
Ansonville ..... } Hon. Secretary: H. F. Schroeder, Esq.
- Kimberley ..... Hon. Secretary: Miss Janet McKay.
- Lethbridge and MacLeod. Hon. Representative: A. J. Watson, Esq.,  
Supt. of Schools, Central School.  
Hon. Secretary: Mrs. Donald White, L.Mus.  
(McGill), Box 507 MacLeod.
- Macgregor ..... Hon. Representative: Rev. J. R. Johns.
- Maxville ..... Hon. Secretary: Miss Netta McEwen, Box  
294.
- Medicine Hat ..... Hon. Secretary: Mrs. F. Duckworth, 543  
Athabasca St. W., Moose Jaw.
- Moncton ..... Hon. Representative: Rev. J. A. Ramsay,  
The Manse, Alma St.  
Hon. Secretary: Geo. Ross, Esq., Mus.Bac.,  
75 Archibald Street.
- Moose Jaw ..... Hon. Representative: A. H. Gibbard, Esq.,  
City Librarian, Public Library.  
Hon. Secretary: Chas. F. Nidd, Esq., 1127  
Third Ave. N.
- Nelson ..... Hon. Representative: H. E. Dill, Esq., 418  
Mill St.



Newcastle .....	Hon. Representative: Rev. L. H. MacLean. Hon. Secretary: Thos. A. Moir, Esq.
New Glasgow .....	Hon. Representative: Mrs. J. T. McLeod, Stellarton. Hon. Secretary: R. G. Humphreys, Esq., Evening News Bldg.
Ottawa .....	Hon. Representative: Dr. Duncan Campbell Scott, Government Offices, Booth Bldg. Hon. Acting Secretary: Kenneth R. Meek, Esq., L.Mus., 5 Arthur Street.
Pembroke .....	Hon. Secretary: Miss E. Moore, R.R. No. 1, Pembroke, Ont.
Pentitton .....	Hon. Representative: Rev. Canon G. Thomp- son. Hon. Secretary: Miss Monica L. Craig, L.A.B.
Peterloro .....	Hon. Representative: Rev. Dr. Blagrave. Hon. Secretary: F. G. Mann, Esq., 199 London St.
Pictou .....	Hon. Representative: C. L. Moore, Esq., Pictou Academy. Hon. Secretary: Miss Eva Skinner, Box 222.
Pictou Academy .....	Hon. Representative: C. L. Moore, Esq., M.A. Hon. Secretary: _____.
Plattsburgh .....	} Hon. Representative: Mr. J. A. McHattie, The Conservatory. Hon. Secretary: Lyndon R. Street, The Conservatory.
Saranac Lake .....	
Ogdeensburg .....	
Chazy .....	
Malone .....	
Quebec .....	Hon. Representative: Dr. G. W. Parmelee, Parliament Bldgs. Hon. Secretary: Capt. Charles O'Neill, Mus. Doc., The Citadel.
Regina .....	Hon. Representative: President of Regina College. Hon. Secretary: H. J. Record, Esq., 3327 Dewdney Ave.
Renfrew .....	Hon. Secretary: F. W. Hopson, Esq.
Rothsay .....	Hon. Representative: Rev. J. H. A. Holmes. Hon. Secretary: Miss A. Davidson, L.Mus. (McGill).
St. John .....	Hon. Representative: Rev. C. Gordon Laur- ence, M.A., 50 Orange St. Hon. Secretary: J. S. Ford, Esq., 6 Germain St.



- Saskatoon .....Hon. Representative: W. A. Gilchrist, Esq.,  
Canada Bldg.  
Hon. Secretary: Geo. C. Palmer, Esq., 652  
University Drive.
- Sherbrooke .....Hon. Representative: W. O. Rothney, M.A.,  
Ph.D., Bishop's University, Lennoxville.  
Hon. Secretary: Wright W. Gibson, B.A.,  
High School.
- Stellarton .....Hon. Representative: Mrs. J. T. McLeod.  
Hon. Secretary: L. N. Miller, Esq., L.Mus.  
(McGill).
- Sydney .....Hon. Representative: Rev. A. H. Campbell,  
58 Falmouth St.  
Hon. Secretary: W. Rains, Esq., 154 Ben-  
tinck St.
- Timmins .....Hon. Representative: E. J. Dickson, Esq.,  
Magor.  
Hon. Secretary: Mrs. J. H. Faithful, Tim-  
mins College of Music.
- Three Rivers .....Hon. Representative: Rev. J. R. MacLeod,  
B.A.
- Truro .....Hon. Representative: David Soloan, Esq.,  
Ph.D.  
Hon. Secretary: Mrs. H. A. Wellard, 91  
Victoria St.
- Vancouver .....Hon. Representative: G. E. Robinson, Esq.,  
B.A., British Columbia University.  
Hon. Secretary: Miss E. M. McGill, B.A.,  
L.Mus. (McGill), Suite 110, Shaughnessy  
Lodge, 1298-10th Ave. W.
- Vernon .....Hon. Representative: Mrs. De Beck.  
Hon. Secretary: Miss Bertha Dillon, L.Mus.  
(McGill), Box 704.
- Victoria .....Hon. Representative: Rev. Norman E. Smith,  
St. Barnabas Rectory.  
Hon. Secretary: Dr. J. E. Watson, 1002  
Fort St.
- Winnipeg .....Hon. Representative: John Parton, Esq.,  
356 Main St.  
Hon. Secretary: Miss Kathleen Robson,  
Mus.Bac. (McGill).
- Wolseley .....Hon. Representative: \_\_\_\_\_.  
Hon. Secretary: Mrs. Anna P. Thomson.
- Yarmouth .....Hon. Secretary: Miss B. A. Posamonick,  
c/o Mrs. J. J. Clarke Robins, Willow St.



## FEES FOR LOCAL EXAMINATIONS

## 1.—Theory of Music (when taken as a Special Subject)

Highest Grade .....	\$ 9.00
Senior Grade .....	5.50
Intermediate Grade .....	4.00
Junior Grade .....	3.00
Elementary Grade .....	2.00

## 2—Practical Subjects

Highest Grade, <i>including fee for Theory</i> .....	\$12.00
Senior Grade, <i>including fee for Theory</i> .....	10.00
Intermediate Grade, <i>including fee for Theory</i> .....	7.50
Junior Grade, <i>including fee for Theory</i> .....	6.00
Elementary Grade .....	3.50
Primary (or Lowest) Grade.....	2.50

## 3—Supplementary Theoretical Examination

Fee for the three highest grades.....	\$ 2.00
Fee for the two lowest grades.....	1.50

## 4—General School Examination

Fee, \$20.00 for first hour and \$10.00 for each succeeding hour.  
(One examiner.)



## FACULTY OF GRADUATE STUDIES AND RESEARCH

### GENERAL STATEMENT

The Faculty of Graduate Studies and Research directs and controls all subjects and courses leading to the higher degrees and recommends candidates for these degrees.

The members of the Faculty are the Deans of the other University Faculties and all Professors and Associate Professors who conduct advanced courses of study or who superintend advanced research work offered to students registered for the degrees awarded by the Faculty. Other members of this University may be elected members of the Faculty in full session upon proper notice of motion.

There are two main divisions of the Faculty, known as "The Arts Division" and "The Science Division," respectively. The Arts Division includes the following departments of study, viz., Classics, Economics and Political Science, English, Germanic Languages, History, Music, Oriental Languages, Philosophy, Romance Languages, Sociology and Theological Studies. The Science Division includes all other departments of study represented in the Faculty. The Departments of Mathematics and Psychology are, however, members of both divisions.

These divisions have full power to discuss all matters and to make all rules and regulations affecting the admission of students to their departments and the requirements for all degrees awarded for work in these departments. Each division shall meet at least once annually in the month of April for the election of officers and of committees and for general business.

Each division of the Faculty elects annually a Divisional Committee of not less than four, and not more than eight, including the Dean; the one to be called "The Committee of Graduate Studies in Arts," and the other "The Committee of Graduate Studies in Science." These committees, subject to the direction and approval of their proper divisions, examine and pass upon the academic records of all students, including lectures, seminars, and all other forms of graduate study. When the Dean of the Faculty has any doubt that a student's qualifications for admission or his subsequent record is entirely satisfactory, he calls these cases specially to the attention of the proper committee for its decision. These committees also recommend all candidates for degrees to the Faculty in full session.



The Dean is a member, and chairman, of both divisions, and of all general committees of the Faculty, and all meetings thereof are called by him or under his direction.

There is an Executive Committee of the Faculty, consisting of the Dean and two members appointed by and from each Divisional Committee; this committee, subject to the direction and approval of the Faculty, deals with all matters of general policy and over all executive matters as, for example, the annual calendar, the preparation of the annual announcement, finances, fees, registration, and all matters of routine.

#### ADMISSION

Advanced courses of instruction are offered to students who are graduates of any university of recognized standing. These students are generally those who have at least second class honour standing or the equivalent of at least second class honours from McGill University in the subject in which they desire to take their major work. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

#### REGISTRATION

Application for registration as a graduate student should be made to the Dean of the Faculty of Graduate Studies and Research. The application must be made in triplicate, every session, on special printed forms which may be obtained at the Dean's Office.

Candidates must consult the department or departments in which they intend to study regarding the course they desire to pursue, in time to attend the regular courses of instruction which begin on October 1st, 1931. Formal application for permission to attend courses must be filled up by the student, and signed by the head or heads of these departments and by the professors under whom the applicant intends to study, and filed with the Dean of the Faculty as early as possible, and at the latest October 8th.

The applicant will give the necessary information with reference to the courses of undergraduate study which he has followed, his standing in the major subject or subjects, his degrees, and in cases of other than McGill graduates, a registrar's certificate of his academic standing from his college or university. As soon as the candidate's course has been approved by the division of the Faculty concerned, he must register without delay at the offices of the University Registrar. He will not be given credit for attendance until he does so. Candidates whose courses extend for more than one year *must register at the commence-*



*ment of each year of their course. If not registered at the beginning of the academic year, as provided above, the candidate will not be eligible for the degree at the following Spring Convocation.*

Candidates who have completed their courses, who have not yet presented their theses, and who are no longer in residence at McGill University, must each session fill three application forms, send them to the Dean for approval, and pay the registration fee of \$5.00.

#### DEGREES

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Science, Master of Engineering, Master of Commerce, Doctor of Philosophy, Doctor of Civil Law, Doctor of Literature, Doctor of Science, Doctor of Music.

#### COURSES AT MACDONALD COLLEGE

Graduate students who are taking the major part of their work at Macdonald College may go into residence there and can take, when required, other graduate courses given at the University.

#### FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

See page 128.

In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Heads of the Departments concerned.

#### WOMEN STUDENTS

Women students registering in this Faculty are invited to call at the Royal Victoria College for information concerning the following:—

1. The Alumnae Society of McGill University, for membership in which they are eligible.
2. The University Women's Club, 3492 Peel St. (including residence accommodation), for membership in which they are eligible.
3. The Monteregian Club, 3426 McTavish St., for women engaged in educational work and others (including residence accommodation), for membership in which they are eligible.



They can also obtain from the Secretary of the Royal Victoria College the addresses of boarding houses in Montreal, and they may, if they wish, make arrangements to obtain luncheon in the College.

#### MAJOR AND MINOR SUBJECTS

A higher degree is granted in the Faculty of Graduate Studies essentially for work in one subject, known as the student's *major subject*. In certain cases, a *minor subject* may also be taken if this subsidiary subject is approved by the head of the department which has charge of the major subject and by the head of the department of the minor subject. A student should determine whether he is to take a minor subject or not by consulting the head of the department of his major subject.

#### RESIDENT GRADUATE STUDY

##### 1. *Normal Procedure for the Master's Degree.*

When a student enters the faculty he interviews the head of the department of his major subject and is assisted in the selection of his courses. He is then directed to consult the professor under whose general direction his research work and his thesis will be completed. The courses and the subject of the thesis have then to be submitted to the Dean for approval by the Faculty. Three application forms must be obtained from the Dean's secretary, filled, signed, and returned before October 8th. Fees must be paid before the end of October, as soon as the application form has been marked approved and returned.

At the end of the first session the student must write the examinations of the courses he has taken and the marks he obtains are part of his qualifications for the degree. If the thesis is now accepted the student is eligible for the **Master's Degree**.

During his work for the Master's Degree and for the Ph.D., if he continues, the student is usually given opportunities of presenting short papers and conducting occasional classes.

##### 2. *Continuation for the Ph.D.*

A student who has obtained his Master's Degree at McGill University or elsewhere and is proceeding to a Ph.D. counts the work done for the former as the first year of his resident study for the Doctor's degree. With the assistance of his professors, the student selects courses, which must be approved, and continues his researches. Application forms must be filled and fees paid, as stated above.



At the end of his second year he must write a searching examination upon the whole major subject. In his third year the number of lecture courses is diminished and the student concentrates upon his research work and his thesis. If his thesis is accepted there is a final oral examination on his research work and thesis.

The above gives the normal procedure of a continuously successful student, but students may take longer to obtain the degree, which is awarded only for excellence of standard and by no means for time of residence. In some cases students proceed to a Ph.D. without a Master's degree, but this is not generally recommended.

#### GENERAL RULES

1. Members of the teaching staff of the University who are also students in the Graduate Faculty and who give more than three hours of lectures or six hours of conference work or twelve hours of supervisory work in laboratories per week; or any student doing an equivalent amount of work inside or outside the University, may not obtain the Master's degree in one year, and will require at least four years for the degree of Ph.D.

2. No full-time student registered in any professional faculty of the University may register for a Graduate Degree without the special permission of both Faculties in full session.

3. Candidates for the Master's degree will be admitted to the Faculty only if they have obtained at least second class Honours at McGill University, or the equivalent of second class Honours, in the subject or subjects they propose to study. In any case, the approval of the department concerned and of the Arts or Science Division Committee is required for admission to the Graduate Faculty.

Candidates who cannot comply with this requirement must make good their deficiencies by at least one preparatory year at the University devoted mainly or wholly to advanced undergraduate study in these subjects.

4. Each department has full liberty to recommend or require a student to take a course or courses in another department.

#### GENERAL REGULATIONS FOR THE DEGREE OF MASTER OF ARTS (M.A.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following departments of study, which rank as "subjects":—



Botany.	History.
Chemistry.	Mathematics.
Chemistry (Macdonald College).	Oriental Languages.
Classics.	Physics.
Economics and Political Science.	Philosophy.
Education.	Psychology.
English Language and Literature.	Romance Languages and Literature.
Geological Sciences.	Sociology.
Germanic Language and Literature.	Zoology.

Certain Theological studies may be taken as a minor subject only.  
See page 542.

The requirements for the degree are as follows:—

1. Candidates must hold the degree of B.A. They must have obtained at least a second class in an Honours course at McGill University, or its equivalent.
2. One or two subjects may be taken.
3. Candidates must select one major subject. A minor subject may be selected with the consent of the Head of the Department in which the major subject is taken, subject to the advice of the Head of the Minor Department. The candidate must pass examinations in all the courses of his subject, or subjects.
4. The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Head of the Department concerned and to the Divisional Committee concerned for their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 479.

#### REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE (M.Sc.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following departments of study:

Agronomy.	Experimental Medicine and Surgery.
Anatomy.	Geological Sciences.
Bacteriology.	Mathematics.
Bacteriology (Agricultural).	Mechanical Engineering.
Bio-chemistry.	Metallurgical Engineering.
Botany.	



Chemistry.	Mining Engineering.
Chemistry (Macdonald College).	Pathology.
Civil Engineering and Applied	Pharmacology.
Mechanics.	Physics.
Electrical Engineering.	Physiology.
Entomology.	Plant Pathology.
	Zoology.

The requirements for the degree are as follows:

1. Candidates must hold a Bachelor's degree with at least second class in an Honours Course at McGill University, or its equivalent. Candidates with an M.D. degree must have attained high standing.
2. A candidate must select one major subject. A minor subject may be selected with the consent of the Head of the Department in which the major subject is taken, and with the consent of the Head of the Minor Department. The candidate must pass examinations in all the courses of his subject, or subjects.
3. The candidate must also present a thesis on some topic connected with his major subject. The title of the thesis must have been previously submitted to the Head of the Department and to the Divisional Committee concerned, and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 479.

#### REGULATIONS FOR THE DEGREE OF MASTER OF ENGINEERING (M.Eng.)

In the year 1931 the Faculty of Arts changed its title and organization to the Faculty of Arts and Science, and at the same time the Faculty of Applied Science change its title to the Faculty of Engineering, thereafter giving a B.Eng. degree. In consequence the M.Eng. degree was instituted under the following general regulations:

To be eligible for the Degree of Master of Engineering, the candidate must hold the Degree of Bachelor of Engineering, or an equivalent degree, and his undergraduate academic rank must, in general, be equivalent to high second-class standing.

The establishment of the Degree of Master of Engineering does not prevent a properly qualified holder of the Degree of Bachelor of Engineering, or the equivalent, from proceeding to the Degree of Master of Science in Pure Science.



Instruction for the degree of Master of Engineering is given in the following departments of study, which rank as subjects, in which definite courses may be selected:

Civil Engineering.  
Electrical Engineering.  
Mechanical Engineering.  
Metallurgical Engineering.  
Mining Engineering.

A candidate must select one major subject. A minor subject may be selected with the consent of the Head of the Department in which the major subject is taken, subject to the advice and consent of the Head of the Minor Department. The candidate must pass examinations in all the courses of his subject, or subjects.

The candidate must also present a thesis on some topic connected with his major subject. The title of the thesis must have been previously submitted to the Head of the Department and to the Divisional Committee concerned, and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 479.

#### THE DEGREE OF MASTER OF COMMERCE (M.Com.)

1. The candidate must hold the Degree of B.Com.
2. Graduates of the School of Commerce at McGill must have passed the full course in Economics laid down in the undergraduate curriculum with at least a creditable average second class standing.
3. Graduates of other universities must offer the equivalent of the McGill requirements in Economics and Political Science.
4. Application for admission must be approved by the Head of the School of Commerce and the Head of the Department of Economics.
5. The candidate must pass the requisite examinations in the selected courses of his subjects for the Master's degree.
6. The candidate must also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Head of the Department concerned and to the Divisional Committee concerned for their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.



REGULATIONS FOR THE DEGREE OF DOCTOR OF  
PHILOSOPHY (Ph.D.)

1. Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. with Honours, or B.Sc. with Honours, or B.S.A. with Honours, or M.D. with Honours from McGill University or its equivalent.

2. They must follow a course of at least three years' resident study at a University or other institution of higher learning or research. Of these three years, at least one year for graduates of McGill and two years for candidates who are not graduates of McGill, must be spent at this University, including preferably the final year. The other years may be spent at institutions approved by the Faculty. Special exceptions regarding resident study may be made with the consent of the proper Divisional Committee and the Faculty. The evaluation of work done in other institutions for the degree is decided by the proper committee of the Division of the Faculty, and this committee may require the student to attend before them to report on his work, and may require him to pass a special examination on his work.

3. They must select one major subject. A minor subject may be selected, with the consent and approval of the Head of the Department in which the major subject is, subject to the advice and agreement of the Head of the Minor Department.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Bacteriology.	History.
Bio-chemistry.	Oriental Languages.
Botany.	Pathology.
Chemistry.	Pharmacology.
Economics and Political Science.	Physics.
Entomology.	Physiology.
Experimental Medicine	Psychology.
and Surgery.	Zoology.
Geology.	

In special cases, Heads of Departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should make direct application to the Faculty of Graduate Studies and Research, asking whether courses in such subjects can be provided.



4. The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the Heads of the several Departments concerned and to the Divisional Committee concerned, and have received their written approval.

5. Every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of French and German.

The examination is set by the Department in which the candidate is taking his major; the passages chosen will be typical of the literature of his major subject. The Departments of Romance and Germanic Languages will act as examiners. The Departments concerned may conduct the examination if they so desire.

Candidates are advised to take one language at the commencement of their first year and the other at the commencement of the second year, but both language tests should be passed not later than one month before the preliminary Ph.D. examination.

6. The first two years include instruction, training and direction in the candidate's field of study, with the object of giving him a knowledge of his particular subject and its relation to cognate branches of learning and of preparing him for independent investigation.

The candidate's preliminary examination is held at the end of the second year, or at a time selected by the Head of the Major Department. This examination covers all graduate work previously taken by the candidate, including his prescribed reading and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination is both written and oral.

The result of this examination determines whether the candidate is allowed to proceed to his degree. The final year is devoted chiefly to the preparation of his thesis or dissertation.

After his thesis has been received and approved, a special and more searching final oral examination on the subject of his dissertation and subjects more intimately related to it will be held. This will be conducted in the presence of a committee of at least four of the Faculty of Graduate Studies.

7. The thesis for the Doctor's degree must display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the Head of the Department in which the major subject lies, and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination.



Theses for the Fall Convocation must be in the hands of the Dean of the Faculty on or before September 3rd.

8. Three copies of the thesis must be provided by the candidate.
9. For the special regulation regarding the Ph.D. Thesis in Economics, see page 503, and for further information regarding theses generally, see page 479.

#### REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

Any person who has graduated as B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. A very high standard is required for this degree, but it does not call for any resident graduate study in the University.

#### REGULATIONS FOR THE DEGREE OF DOCTOR OF LITERATURE (D.Litt.)

Bachelors of Arts of McGill University who are graduates of at least seven years' standing, and who have distinguished themselves by special research and learning in the domain of arts and literature, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Literature. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree.

#### REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

Bachelors of Arts, Bachelors of Science or Doctors of Medicine of McGill University who are graduates in one or other of these Faculties of at least seven years' standing and who have distinguished themselves by special research and learning in the domain of science, may submit their published works to the Faculty of Graduate Studies



and Research and apply for the degree of Doctor of Science. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree.

#### REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying no less than forty minutes in performance. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed work.

Graduates of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus. Bac., if they wish to proceed to the further degree of Mus. Doc., provided they secure permission to do so from the executive of the Faculty of Graduate Studies and Research, the period of seven years referred to above to be counted from the date on which they received the degree of Bachelor of Music from their own University.

#### REQUIREMENTS FOR MUS. DOC.

Harmony up to eight parts.

Counterpoint up to eight parts (Strict and free).

Instrumentation.

Canon four and two.

Fugue up to five parts.

History of Music.

Form and Analysis.

(Latter based on knowledge of Beethoven's nine symphonies, Brahms' second and third symphonies, a Strauss Tone Poem, Death and



Transfiguration, Wagner's Meistersinger and Tannhauser Overtures, either Bach's St. Matthew Passion or Beethoven's Mass in C, and Mozart's Magic Flute or Wagner's Parsifal.)

#### REGULATIONS CONCERNING THESES

In the case of students who wish to graduate at the Spring Convocation, all theses for a Master's degree must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 29th. Theses for the degree of Ph.D. must be handed in on or before April 25th.

All theses for the degree of Master of Science, or of Engineering, which involve experimental work, must be in the hands of the Dean not later than May 13th.

In the case of students who wish to graduate at the Fall Convocation, their theses must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 3rd.

Owing to the fact that all theses submitted by successful candidates for higher degrees are bound and placed in the Library, candidates for such degrees are advised that the Faculty of Graduate Studies and Research requires these to be prepared in a uniform manner and in accordance with the following specification:—

- (1) The paper is to be of uniform size,  $8\frac{1}{2}$  x 11 inches, and of substantial quality.
- (2) The left-hand margin is to have a uniform width of about  $1\frac{1}{2}$  inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.
- (3) All theses must be typewritten and in triplicate. Ultimately one copy is deposited in the McGill Library, one in the Departmental Library, and one is returned to the candidate.
- (4) No binding is necessary, but the loose sheets must be placed in a manila envelope in the order of their pagination.
- (5) All copies of the thesis must be free from typographical and other errors, otherwise they will be returned to the candidate for revision, with possible consequent delay in the granting of the degree.
- (6) Every thesis should have an abstract or sufficient table of contents, and a thorough bibliography on the subject. Scientific theses should also contain an introductory historical statement of previous work or investigation, and a summary. In the case of the Ph.D. degree, there should be a clear statement of the claim of original work or contribution to knowledge of the author.



In the case of candidates presenting themselves for the degree of Doctor of Science, Doctor of Literature or Doctor of Civil Law, two copies of the book or books—or for the degree of Doctor of Civil Law, should a thesis be substituted, two typewritten copies of the thesis—must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than *February 14th* of the year in which the candidate desires to take the degree.

#### INTERCHANGE OF STUDENT TEACHERS

An arrangement has been made between the National Committee for the Training of Teachers, Scotland, and McGill University, for the reciprocal exchange of student teachers.

The students coming to McGill will be Honour Graduates in Arts or Science and probably also in Education. They may make a special study of Education or may take up any course leading to the degree of M.A., M.Sc., or Ph.D. If they study for a higher degree, the period and conditions of study will be fixed by the Faculty of Graduate Studies and Research on the recommendation of the Head of the Department in which the work is to be carried on. They will be assisted for one year and possibly for two. Students who study Education will be called upon to furnish a detailed report on their work, in which case only one year's studentship will be allowed. Details of the teaching work will be arranged by the Professor of Education.

Students going from McGill must be Bachelors of Arts, or Bachelors of Science in Arts, or Masters of Arts.

They will be assisted for one year and in special cases for two. The allowance will be \$1,200 per annum.

They will be expected either to study for a higher degree or to make a detailed study of Scottish educational systems. In the latter case, only one year's studentship will be allowed.

A student teacher holding an M.A. degree from McGill may be able to obtain a Scottish Ph.D. in two years.

Applications must be sent to the Principal before May 1st. These must state:—(a) University qualifications; (b) Teaching experience; (c) Any general experience; (d) Whether the student proposes to study for a higher degree and, if so, for what degree and whether or not he requires one or two years' assistance.



**COURSES OF GRADUATE STUDY****DEPARTMENT OF AGRONOMY****(Macdonald College)****PROFESSOR OF AGRONOMY:—ROBERT SUMMERBY.****ASSISTANT PROFESSORS:—**

{	L. C. RAYMOND.
	E. A. LODS.

**LECTURER:—J. N. BIRD.**

The Department is well equipped to conduct research with crop plants particularly in relation to breeding. A greenhouse is available for crop studies during the winter. Facilities are also provided in the Chemistry Department for students in agronomy to make chemical analyses.

The Department's programme of research and plant breeding furnishes a large amount of data and material for work in crop and plant breeding studies, more particularly inheritance, research technique, and soil heterogeneity.

All the important periodicals, scientific journals, books and bulletins on agronomy and related subjects, are available to students in either the McGill, Macdonald College or Agronomy Department Libraries.

Students whose major subject is Agronomy may elect, or may be required to take courses in allied subjects.

**COURSES FOR THE DEGREE OF MASTER OF SCIENCE**

Candidates who take agronomy as a major subject must have had a good training and achieved high standing in agronomy, botany, chemistry, and genetics. Those who have not had adequate training in these subjects must rectify any such deficiency.

**A. Crop Production.** This course deals with the important factors of soil productivity and crop growth, and the relation of these to methods and practices of crop production.

Two lectures and one laboratory period per week for one term.

Professor Raymond.

**B. Experimentation.** This course deals with the factors involved in agronomic investigations, technique, statistical methods and their application to the interpretation of results.

One lecture and two laboratory periods per week for one term.

Professor Summerby.



**C. Forage Crops.** This course includes a study of classification, adaptation, production, uses, breeding, and investigation work in these subjects.

(a) Hay and Pasture Crops.

(b) Corn and Roots.

Two lectures and two laboratory periods per week for two terms.

Professor Raymond and Mr. Bird.

**D. Grain Crops.** This course includes a study of classification, adaptation, production, uses, breeding, and investigation work in these subjects.

Three lectures and three laboratory periods per week for one term.

Professor Lods.

**E. Seminar.** Fortnightly, during the year.

Professor Summerby and staff.

It is recommended that candidates spend at least one summer in the Department before or during the course.

Each student is required to pass an examination in each subject of his course.

In addition, each student is expected to pass an oral examination to test his ability and knowledge outside of his regular courses of study.

A candidate must present a written thesis on his research work to meet the requirements of the Graduate Faculty.

#### DEPARTMENT OF ANATOMY

PROFESSOR OF ANATOMY:—S. ERNEST WHITNALL.

PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.

ASSOCIATE PROFESSOR OF ANATOMY:—J. BEATTIE.

The Department is equipped with the usual laboratory facilities and can offer ample material, including a series of anthropoid subjects and brains. The Museum is fully representative, with a range of animal skeletons and a comprehensive osteological collection. Photographic work is done in the same building. A small departmental library contains general and advanced text-books with some works of reference. The Medical Library is on the same floor. There is a departmental card index of over 10,000 references to anatomical articles. Private rooms are available for individual work.



## COURSES FOR THE DEGREE OF MASTER OF SCIENCE

**A. Advanced General Human Anatomy**, in which teaching and examination experience can be obtained.

Professor Whitnall and Staff.

**B. Specialization in one of the following subjects:**

- (a) **Embryology.** A course on the development of the human embryo and its coverings, together with Organogenesis.

Professor Simpson and Staff.

- (b) **Human Morphology.** Students will be expected to dissect at least three Primates, and to familiarize themselves with the recent work on Pleistocene Man; special attention is to be given to myological and neurological problems.

Professors Whitnall and Beattie.

- (c) **Physical Anthropology.** Instruction will be given in the measurement of human and anthropoidal skeletons, with statistical treatment of the results.....Professor Beattie.

- (d) **Neurology.** A course on human and comparative neurology, with laboratory course.....Professor Beattie.

Candidates may also be recommended to study certain cognate minor subjects (Biochemistry, Physiology, Vertebrate Zoology).

The whole course is designed to be of value to either (1) those who propose to engage upon clinical professional work, such as Gynæcology and Obstetrics, when in addition to the General Course in Anatomy, they may well be advised to take the special work in Embryology, or, for prospective nerve specialists, that in Neurology, or (2) those who wish to pursue broader scientific lines of work, when they may take the Course in Morphology or Anthropology.

Each of the above courses comprises colloquia, reading and practical work. The candidate must show evidence of ability to engage in research work, and must present a thesis on some subject connected with his course of study.

Candidates for the above courses must hold the degree of M.D. with good standing.



## BACTERIOLOGY

PROFESSOR:—E. G. D. MURRAY.

LECTURERS:— $\left\{ \begin{array}{l} \text{W. W. BEATTIE.} \\ \text{_____} \end{array} \right.$ 

Candidates for higher degrees must present evidence of suitable preparation in Bacteriology and Immunology:

**For the M.Sc. Degree.**

1. B.Sc. degree with at least second class honours in Bacteriology at McGill University, or its equivalent elsewhere.
2. M.D. degree with high standing in Bacteriology, Pathology, and Immunology.

**For the Ph.D. Degree.**

1. Evidence of having done significant research in Bacteriology or Immunology.

## COURSES AVAILABLE TO CANDIDATES FOR M.SC. AND PH.D DEGREES

A. The more advanced lectures and classes given in the Department to the Science Division of the Faculty of Arts and Science, and to the Faculty of Medicine will be available to candidates for the M.Sc. degree.

B. Conferences will be held with candidates guiding them in their reading, helping with technique, and discussing the theory and practice of Bacteriology and Immunology, as well as of individual researches.

C. The practice of the Clinical Bacteriological Service in relation to the Royal Victoria Hospital will also be available to candidates as a means of instruction and a source of material for research and study.

**Requirements for M.Sc. Degree.**

One session of residence, good standing in the examinations on all selected courses, continuous research, and thesis giving a critical analysis of the literature related to research and showing originality.



**Requirements for Ph.D. Degree.**

Three sessions of resident study; a general examination at the end of the second year on Bacteriology and Immunology; continuous research work; a thesis showing originality, a critical faculty, and a definite contribution to knowledge; and an oral examination on the thesis and allied subjects.

**DEPARTMENT OF AGRICULTURAL BACTERIOLOGY****(Macdonald College)****ASSISTANT PROFESSOR OF BACTERIOLOGY:—P. H. H. GRAY.**

Courses in Soil Microbiology and Dairy Bacteriology are offered, either of these forming the basis for major work leading to the degrees of Master of Science and Doctor of Philosophy. The Department has adequate laboratory space and is well equipped for graduate work in all branches of Agricultural Bacteriology, and greenhouse facilities are at hand for work in soil problems. The College Stock Farm, dairy, and experimental plots are available for carrying out experiments. The Department has a growing library of books treating of all the subjects offered and a comprehensive collection of bulletins and journals.

**A. Systematic Bacteriology.** The foundations of bacterial taxonomy, including, studies of morphology, cytology and chemical reactions of bacteria.

One lecture and three laboratory periods for one term.

Professor Gray.

Candidates for the degree of Master of Science are required to take Course A.

**B. Soil Microbiology.** The relation of soil micro-organisms to fertility, with especial regard to modern methods of investigation. Especial attention is given to the dynamic aspect of soil processes, and to the microbiological equilibrium consequent upon environmental and other factors, such as season, chemical composition and physical state of the soil.

One lecture, six laboratory periods, for two terms.

Professor Gray.

**C. Dairy Bacteriology.** A study of the bacteria of milk and milk products.

One lecture, six laboratory periods, for two terms...Mr. Thompson.



**D. Fermentation micro-organisms.** A study of the physiology of organisms and of the processes involved in fermentation reactions.

One lecture, three laboratory periods, one term....Professor Gray.

**E. Colloquia.** Hours variable, according to the nature of the thesis work.

Students are expected to prepare a thesis on some outstanding aspect of the major subject selected. As prerequisites students must show evidence of high standing in general microbiology and bacteriological technique; other prerequisites are chemistry, mathematics, biochemistry and physical chemistry. Students selecting Soil Microbiology should have taken courses in the physics and chemistry of soils.

#### DEPARTMENT OF BIOCHEMISTRY

PROFESSOR OF BIOCHEMISTRY:—J. B. COLLIP.

ASSOCIATE PROFESSORS:— $\left\{ \begin{array}{l} \text{J. W. SCOTT.} \\ \text{D. L. THOMSON.} \end{array} \right.$

The Biochemical Laboratories are especially equipped for research on endocrine problems, but ample facilities are also provided for research on problems of more general biochemical interests.

#### COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Lectures to the candidates for the M.Sc. and Ph.D. degrees will be given in the department of Biochemistry, usually twice weekly, throughout the year.

**Course A (1931-32):** The nature of enzyme action; endocrinology and metabolism; chemistry of proteins and amino-acids; colloid chemistry of proteins; chemistry of muscular contraction; bacteriological biochemistry.

**Course B (1932-33):** Chemistry of hæmoglobin; respiratory function of the blood; chemistry of the vitamins; oxidation and reduction; chemistry of the carbohydrates; endocrinology and reproduction.

These courses, which may be altered from time to time, are given in alternate years. Course A will be given in 1931-32.

It is desirable that students entering for the M.Sc. in Biochemistry should have taken advanced courses in both Chemistry and Biology as undergraduates.



Candidates who desire to proceed to this degree must have a good knowledge of Chemistry (inorganic, organic and physical) and must have taken (or must take concurrently with the work for this degree) all the undergraduate work in Biochemistry.

Candidates who have satisfactorily completed the course in general Biochemistry as undergraduates may present themselves for examination for the M.Sc. degree in Biochemistry at the end of one year's graduate work in the department. All others are expected to spend two years in the graduate school before going forward for the degree. The requirements for this degree consist of:—

1. Candidate attaining a thorough knowledge of the subject matter of general Biochemistry.
2. Completion of some minor research.
3. Presentation of a thesis.

#### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The requirements for registration for the degree of Ph.D., with Biochemistry as the major subject, are the same as those for the M.Sc.

During the course of study, the candidate must attain to a high degree of proficiency in the subject, and in addition must undertake a research problem, to the elucidation of which he is expected to devote much time and energy. In the selection of the problem consideration is given to the previous training and demonstrated ability of each candidate.

#### DEPARTMENT OF BOTANY

PROFESSORS OF BOTANY:—  
FRANCIS E. LLOYD.  
GEORGE W. SCARTH.

PROFESSOR OF PLANT PATHOLOGY (MACDONALD COLLEGE):—

ASSOCIATE PROFESSOR:—C. LEONARD HUSKINS.

ASSISTANT PROFESSOR OF PLANT PATHOLOGY (MACDONALD COLLEGE):—  
J. G. COULSON.

ASSISTANT PROFESSOR OF PLANT PATHOLOGY:—R. F. SUIT.

#### MATERIAL FACILITIES FOR GRADUATE STUDY

Ordinary laboratory equipment and greenhouse space for practical work in plant physiology, histology and genetics. Special equipment



for optical and photographic work (ultra-microscopes, ultra-violet and moving-picture outfits); bio-physical measurements (potentiometers, tensionometers, etc.), and for cell investigation (micro-manipulators, etc.). Museum, Herbarium and Library with standard books and journals in Botany and General Physiology.

#### LINES OF STUDY FOR HIGHER DEGREES

**A. Comparative Morphology and Taxonomy.**

**B. Anatomy and the Microchemistry of Cell Walls.** (Specially adapted as a minor for students of Cellulose Chemistry and Technology).

**C. Physiology and Ecology.** Repetitive studies.

**D. General Cytology and Cellular Physiology.** (A suitable minor for students specializing in Physiology, Biochemistry, etc.)

**E. Genetics and Cytology.** Work given in co-operation with the Department of Zoology, and with the Faculty of Agriculture, MacDonald College.

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

##### *Major Subject*

1. A candidate taking Botany as a major subject must display in his final undergraduate examinations a general knowledge of Botany well in advance of that required for a continuation subject for an ordinary B.A. or B.Sc. degree. He must possess a knowledge of the history of Botany, such as is contained in Sach's and Rynold Green's text-books, and an adequate acquaintance with any other subject that he may need in his work.

2. The candidate must show special knowledge of, and satisfy the laboratory requirements in, at least *two* of the *lines of study* mentioned above.

3. A student, who desires to specialize in Genetics or Cytology, or in both, may, however, enter upon such work with an adequate preliminary training in Botany, Zoology, or Agriculture, and may continue his advanced studies with direct reference to branches of any one or more of these subjects.

4. The candidate must carry out a piece of research work and submit a satisfactory thesis (see page 479).



### Minor Subject

A candidate taking Botany as a minor subject must possess as a prerequisite sufficient knowledge of Botany and other subjects to enable him to specialize in *one* of the *lines of study*, and in that line, must satisfy the same requirements as for a major.

Each line of study demands about six hours laboratory work per week, in addition to prescribed reading and attendance at instructional courses.

### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A deeper knowledge of one of the above lines of study; reading and abstracting of original papers; and an intimate acquaintance with the particular field treated in the candidate's thesis. Instruction is given mainly by way of conference and direction of study.

### Research

The research and thesis must be of Ph.D. standard (see page 479).

### Seminar

A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of general botany, physiology, cytology, histology, morphology, ecology, taxonomy, genetics and mycology.

### DEPARTMENT OF PLANT PATHOLOGY

#### (Macdonald College)

ASSISTANT PROFESSORS OF PLANT PATHOLOGY:— $\left\{ \begin{array}{l} \text{J. G. COULSON.} \\ \text{R. F. SUIT.} \end{array} \right.$

The Graduate work given in this Department is in the field of plant pathology and mycology.

The Departmental laboratories of plant pathology, plant physiology and histology, as well as a small research laboratory, are available for the use of graduate students. Greenhouse facilities are provided and temperature control equipment is available for the study of environment on plant diseases.

The Department has a considerable number of the more specialized works and periodicals concerning plant pathology.



Candidates must have completed satisfactory undergraduate courses in plant morphology, physiology, taxonomy, histology and cytology. Specialists in plant pathology should possess a general knowledge of the fundamental practices in agronomy and horticulture.

**A. History of Plant Pathology.** One lecture per week for one term. Extra reading required.

**B. Advanced Mycology.** Two lectures and two laboratory periods per week for two terms. This course, requiring as a prerequisite a general course in systematic mycology, offers special work in the morphology and taxonomy of the fungi.

**C. Advanced Plant Pathology.** Detailed studies of plant diseases; culture and inoculation work; field and greenhouse tests in control measures, etc. Two lectures and two laboratory periods per week for two terms.

Professor Coulson and others.

**D. Physiology of the Fungi.** Nutrient requirements; carbon sources in nutrition; nitrogen fixation; enzymes in nutrition; H-ion and nitrogen concentration; temperature, light and moisture conditions; tropisms, staling; spore germination conditions; biologic specialization; physiology of parasitism; symbiosis. Two lectures and two laboratory periods per week for one term.

Professor Coulson.

**E. Phytopathological Histology.** A study of abnormal plant structures caused by myxomycetes, fungi, bacteria, insects, etc.; preparation of slides, photomicrographs, etc. One lecture and two laboratory periods per week for one term.

Professor Coulson.

**F. Cytology of the Fungi.** Studies of sexuality; nuclear phenomena; formation of sporangium, conidium, pycnidium, perithecium, etc.; origin of setae, cystidia, etc.; development of chlamydospores, sexual and asexual spores, etc. Two lectures and two laboratory periods per week for one term.

**G. Seminar.** A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of general botany, physiology, cytology, histology, morphology, ecology, taxonomy, genetics, mycology, pathology. Attention is more especially directed to such articles as have application in plant pathology or mycology.

One period per week.....Professor Coulson and others.



Candidates for the degree of M.Sc. in Plant Pathology are required to take courses A, G and two others of the graduate courses offered in this Department in addition to writing a thesis.

A candidate for the degree of Doctor of Philosophy may take two years at Macdonald College and one at another University.

A student selecting his major work from the courses listed above may also elect or be required to take one or more courses in related subjects either in the Faculty of Agriculture or other faculties of the University.

#### DEPARTMENT OF CHEMISTRY

PROFESSOR OF INORGANIC CHEMISTRY AND DIRECTOR OF THE CHEMISTRY

DEPARTMENT:—F. M. G. JOHNSON.

PROFESSOR OF PHYSICAL CHEMISTRY:—O. MAASS.

PROFESSOR OF INDUSTRIAL AND CELLULOSE CHEMISTRY:—

HAROLD HIBBERT.

ASSOCIATE PROFESSOR:—W. H. HATCHER.

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{C. F. H. ALLEN.} \\ \text{E. W. R. STEACIE.} \\ \text{J. H. MENNIE.} \end{array} \right.$

LECTURERS:— $\left\{ \begin{array}{l} \text{W. H. BARNES.} \\ \text{J. B. PHILLIPS.} \end{array} \right.$

Facilities for Graduate work are available in Organic, Inorganic, Physical, Colloid, and Cellulose Chemistry. In each of these branches a variety of research problems is offered for which equipment and laboratory facilities are ample. Accommodation is available for about forty students.

The Baillie Library of Chemistry is well endowed and exceptionally complete.

#### COURSES FOR HIGHER DEGREES

##### A. Advanced Organic.

Chemistry of more complicated reactions and classes of organic substances.

Two hours per week, first term; three hours, second term.

Professor Allen.

##### B. Structural Organic Chemistry.

This course is designed for those specializing in Organic Chemistry. The following topics, among others, are discussed: terpenes, heterocyclic compounds including five and six-membered ring systems; plant and animal pigments, cholesterol, certain alkaloids, free radicals, molecular rearrangements. The subject matter is not necessarily the same each year.

Two hours per week.....Professor Allen.



**C. Advanced Organic.**

General principles and recent developments.

One hour per week.....Professor Hibbert.

**D. Advanced Inorganic.**

The Periodic System, modern theories of valence and atomic structure.

One hour per week.....Professor Johnson.

**E. Advanced Inorganic.**

Tutorial covering properties of the elements and their compounds.

One hour per week.....Professor Johnson.

**F. Advanced Physical.**

(a) Properties of Matter — discussed from the kinetic point of view ..... 2 hrs. per week, 1st term.

(b) Physico-chemical Equilibria.  
From point of view of time factor and thermodynamics... 2 hrs. per week, 2nd term.

(c) Phase Rule ..... 1 hr. " " 1st "

(d) Atomic Structure and Radio-activity ..... 1 hr. " " 2nd "  
Professor Maass.

Any or all of these sub-divisions, as well as a course in theoretical calculations may be required.

**G. Colloid Chemistry.**

Two hours per week.....Professor Steacie.

Laboratory courses are available in all of the above when required.

**H. History of Chemistry.**

One hour per week, second term.....Dr. Barnes.

The above courses are available for Honours students in Arts and Science and students in Chemical Engineering.

**I. Short Courses on Recent Advances.**

One hour per week.

(Subjects change annually.).....Senior Staff.



**J. Colloquium—Organic.**

Two hours per week..Professors Hibbert, Hatcher and Allen.

**K. Colloquium—Inorganic and Physical.**

Two hours per week.....Professors Johnson and Maass.

**L. Cellulose, Lignin and Related Compounds.**

One hour per week.....Professor Hibbert.

**M. Physical Properties and Chemical Constitution of Organic Compounds.**

One hour per week. Second term.....Professor Hatcher.

Graduate students are expected to attend the weekly meetings of the Chemical and Physical Societies.

**COURSES FOR THE DEGREE OF MASTER OF SCIENCE**

I. Students are required to take examinations in (a) Organic, (b) Inorganic, (c) Physical, (d) Colloid Chemistry, and other assigned courses, if any. Students are expected to have covered the subject matter of at least two of the above courses on entrance to the Faculty.

**II. Colloquium—one per week.**

Students are required to present and discuss in an acceptable manner papers dealing with fundamental and recent work.

**III. Special Graduate Lectures.**

Students are required to pass examinations on the subject matter of such lectures related to their particular work.

**REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY**

I. The research work in this Department may be conveniently considered under four heads:—

(a) Organic Chemistry.

(b) Inorganic “

(c) Physical “

(d) Colloid “

One of these (under which the research falls) is designated the “principal subject” and each of the others a “secondary subject.”



Graduate students are required to take examinations in both "principal" and "secondary" subjects.

*Principal Subjects:*—Several examinations, both written and oral, are held. Students are responsible for the subject matter of all related lecture courses and assigned reading. Special courses given in other Departments may be assigned and examinations required.

*Secondary Subjects:*—The examinations are less rigorous than in the principal subject. The subject matter is more clearly defined and may include suitable lecture courses or texts, or both.

- II. *Colloquium*—one per week each year in the principal subject. Students are required to present and discuss in an acceptable manner papers dealing with fundamental and recent work.

#### EXAMINATIONS IN CHEMISTRY

*Principal Subject:*

1. An examination is held in May of the second year. Additional special examinations are held during the third year.
2. Candidates who fail in the May examination of the second year are required to repeat the year and the examination in the principal subject.

*Secondary Subjects:*

1. All examinations are available in May and October for candidates in the first two years.
2. A second supplemental examination in any one subject may be taken only on recommendation by the Department.
3. Examinations in all subjects must be passed by the end of October of the candidate's third year.
4. For candidates entering the third year, the October examinations are supplemental examinations only.

*General:*

1. A candidate who may wish to take examinations in any one or more secondary subjects in October of his entrance year is advised to consult the director of the department as soon as possible.



2. In a secondary subject a Master of Science examination at McGill will be accepted as a Preliminary Ph.D. examination provided a standard required by the Department is obtained.

Also, candidates who believe they have the necessary qualifications may apply to the director of their research for exemption from examination in a secondary subject. Such qualifications include a high standing in an examination taken at McGill or other university in the secondary subject. The director of the candidate's research may grant this exemption only with the approval of the Department.

#### SUGGESTIONS TO CANDIDATES INTENDING TO MAKE ORGANIC CHEMISTRY THEIR MAJOR SUBJECT

Previous laboratory experience in the following is of advantage.

(a) Quantitative estimations of carbon, hydrogen, halogen, nitrogen (if Kjeldahl, on some pure organic compound); molecular weights; preparation of an analytical sample.

(b) Qualitative identification of aliphatic alcohols, amines, aldehydes and ketones, acids and esters. This should include preparation of suitable derivatives, *e.g.* by Schotten-Baumann reaction, acylations in pyridine solution, etc., as well as methods of separation of mixtures of liquids or solids.

(c) Preparations involving the Grignard reaction, Friedel-Crafts reaction, a vacuum distillation, any one preparation on a large scale.

(d) Students intending to undertake research in the organic chemistry of pulp and paper may with advantage add:—the identification of carbohydrates and the quantitative estimation of sulphur.

#### DEPARTMENT OF CHEMISTRY

(Macdonald College)

PROFESSOR:—J. F. SNELL.

ASSISTANT PROFESSORS:— $\left\{ \begin{array}{l} \text{J. B. MCCARTHY} \\ \text{R. R. MCKIBBIN} \end{array} \right.$

In addition to four student laboratories there are three research laboratories and space for the equipment of additional rooms, when



required. A good supply of ordinary apparatus and chemicals is kept in stock. Special apparatus and instruments include a Schmidt and Haensch polarimeter, Abbe refractometer, Zeiss immersion refractometer with replaceable prisms, Chamot chemical microscope, Klett colorimeter, Van Slyke amino nitrogen apparatus, Van Slyke blood gas apparatus, Parr carbon apparatus, DeKhotinsky drying and vacuum ovens, electric muffle and combustion furnaces, etc.

There is a comprehensive library of agricultural books and periodicals. The resources of the University libraries and of the library of the Department of Agriculture and that of the National Research Council at Ottawa are readily accessible, and the courteous co-operation of other Canadian and American libraries can be counted upon in connection with research work.

#### COURSES FOR THE DEGREE OF MASTER OF SCIENCE

*Prerequisites:*—Courses in Inorganic, Organic and Analytical Chemistry; training in Qualitative and Quantitative Analysis; courses in Physics.

- A. **Chemistry of Soils and Fertilizers.** Two lectures a week during the Spring term in alternate years. Given in 1932-33. Laboratory work in analysis of soils and fertilizers, hours variable. Supplementary reading.....Professor McKibbin.
- B. **General Biochemistry.** Two lectures a week during the Spring term in alternate years. Supplementary reading. Laboratory work, hours variable. Given in 1932-33.  
Professor McKibbin.
- \*C. **Chemistry of Insecticides and Fungicides.** Discussion of the composition of commercial insecticides and fungicides and of the chemical changes involved in the preparation of spraying mixtures; also of the methods of analysis of such materials with reference to the chemical principles involved. Three lectures a week during the Spring term. Laboratory work, hours variable. Given in 1932-33.....Professor Snell.
- \*D. **Dairy Chemistry.** Two lectures a week during the Fall term. Laboratory practice in the analysis of milk and its products. Hours variable.....Professor Snell.

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\* These courses are also open to advanced undergraduates.



\*E. **Food Chemistry.** Two lectures a week during the Spring term. Laboratory practice in food analysis. Hours variable.  
Professor Snell.

F. **Tutorial in Physical Chemistry.** Reports and discussions on assigned readings. One hour a week—Professor McCarthy.

G. **Tutorial in Organic Chemistry.** Reports and discussions on assigned readings. One hour a week.....Professor Snell.

H. **Tutorial in Colloid Chemistry.** Reports and discussions on assigned readings. One hour per week for one term.

Professor Snell.

\*I. **Seminar.** One hour per week in all years of the course. Each student will present at least three papers a year.

Professors Snell, McCarthy and McKibbin.

J. **Research.** Supervision of reading and experimental work in connection with thesis.

Professors Snell, McCarthy and McKibbin.

Special arrangements may be made for the Ph.D. degree in association with the McGill Department of Chemistry. Agricultural Chemistry will be regarded as the principal subject, and courses taken in the other departments mentioned in paragraph 1 as secondary subjects. See regulation 3 for the Degree of Doctor of Philosophy. (Page 475.)

Candidates must qualify in the equivalent of at least four lecture hours of the above subjects in addition to participating in the Seminar.

#### DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

PROFESSOR OF CIVIL ENGINEERING:—

PROFESSOR OF APPLIED MECHANICS AND HYDRAULICS:—ERNEST BROWN.

PROFESSOR OF HIGHWAYS AND MUNICIPAL ENGINEERING:—

R. DeL. FRENCH.

ASSOCIATE PROFESSOR OF CIVIL ENGINEERING:—R. E. JAMIESON.

Excellent laboratory facilities are provided for work in the strength and elasticity of materials, structural elements, highway materials and hydraulics. The materials laboratories have exceptionally useful extensometer equipment for work in stress distribution.

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\* These courses are also open to advanced undergraduates.



## COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

**A. Statically Indeterminate Stresses.**—General methods of stress analysis, influence lines, applications to braced arches, rectangular framework, etc.; theory of riveted joints; columns with lateral and intermediate loads, etc.

One term, two hours tutorial, and six hours computation and reports. ....Professor Jamieson.

**B. Technical Elasticity.**—The general equations of elasticity with various applications (special attention being paid to approximate numerical solutions); strength of flat plates, etc.; torsion of thin tubes and prisms of non-circular section; the determination of stress distribution by means of polarized light; elastic stability; vibration of structures.

One term, two hours tutorial, and six hours computation and reports.

**C. Secondary Stresses.**—Secondary stresses due to rigidity of joints, deflection of floor beams, eccentric connections, latticing, etc.; critical discussion of specifications for structural members in the light of tests.

One term, two hours tutorial, and six hours computation and reports.

**D. Reinforced Concrete Arches (Advanced).**—Preliminary design, development of influence lines, unsymmetrical arches, elastic piers, economics of concrete arches, etc.

One term, one hour tutorial, and six hours computation and reports.

**E. Hydraulics.**—General principles of hydrology in relation to power development; steam gauging and use of records; flow in streams and in open channels; back-water computations; dams and spillways; the principles of hydraulics as applied to modern turbines; general trend of turbine development; turbine testing and characteristics; special problems such as pressure surges in conduits; general consideration of water-power plants, including the study of plants in operation; turbine testing and experimental work in hydraulic laboratory.

One hour tutorial, and six hours computation and reports.

Professor Brown.

**F. Highway Engineering.**—(a) Highways; history of development; finance, legislation and administration; traffic; economics of design, construction and maintenance; safety provisions. (b) Highway Transportation; history; relation to other forms of transportation; economics of motor transportation; regulation; traffic control.



Four hours tutorial, and twelve hours computation and reports.

Professors French and McKergow and staff. Special lectures from time to time.

Candidates for the M.Eng. degree will be expected to take at least two and generally three courses in addition to thesis work. Written examinations which may be supplemented by oral examinations will be held in each course. A high standard of attainment will be required.

#### DEPARTMENT OF CLASSICS

HIRAM MILLS PROFESSOR OF CLASSICS:—WILLIAM D. WOODHEAD.

PROFESSOR OF CLASSICAL PHILOLOGY:—C. H. CARRUTHERS.

ASSOCIATE PROFESSOR:—A. M. THOMPSON.

LECTURER:—E. M. COUNSELL.

#### COURSES FOR THE DEGREE OF MASTER OF ARTS

##### Greek A: Greek Lyric Poetry.

A historical survey of Greek Lyric Poetry with readings from the *Anthologia Lyrica Græca* and other texts.

Two hours Colloquia.....Professor Woodhead.

##### Greek B. History of the Epigram.

A study of the origins of the Epigram, its development by Classical and Hellenistic Greek poets, and its place in Latin literature. Selected epigrams to be read, and essays to be presented on special topics.

Two hours Colloquia.....Professor Carruthers.

##### Greek C: Pindar.

A selection of the Odes will be read, with parallels from Bacchylides and other authors.

Two hours Colloquia.....Professor Woodhead.

##### Greek D: Greek Political Theory, with special attention to the Greek conception of Law.

Selected passages from Herodotus, Thucydides, Attic Tragedy are to be studied, also the Republic and Laws of Plato, and the Politics of Aristotle.

Two hours Colloquia.....



**Greek E: Aeschylus, Oresteia.**

A critical study of the text.

Two hours Colloquia.....Professor Woodhead.

**Latin A: Vergil, Aeneid.**

Some books of the Aeneid will be read and lectures given on topics connected with the study of the poem.

Three hours.....Professor Thompson.

**Latin B: Lucretius.**

A knowledge of the six books will be required. The poem will be examined primarily as a piece of Latin literature; Greek philosophy and science will be subsidiary considerations.

Two hours Colloquia.....

**Latin C: Roman Satire.**

Lectures on the development of Satire as a form of literature. The Apocolocyntosis, the Satires of Persius, and some of the Satires of Horace and Juvenal will be read.

Two hours Colloquia.....Professor Thompson.

**Latin D: Latin Epigraphy and Palæography.**

(a) Study of the Republican, and typical examples of the Imperial inscriptions, with their bearing on Roman public careers and institutions.

(b) History of Latin writing down to the formation of the national European scripts, with required exercises.

Two hours Colloquia.....Professor Carruthers.

**Latin E: Petronius and Apuleius.**

The Cena Trimalchionis will be read, and selections from the Metamorphoses of Apuleius.

Two hours Colloquia.....Professor Woodhead.

**Latin F: Latin Comedy.**

A study of the history and development of Latin comedy, with reading of selected plays by Plautus and Terence.

Two hours Colloquia.....Professor Woodhead.



## COURSES IN COMPARATIVE PHILOLOGY

LECTURER:—PROFESSOR C. H. CARRUTHERS

**A. Introduction to the Study of Language.**

For students of Classical or Modern languages. Language as a human institution; relation to thought; theories of origin; value of linguistics as a science; historical method and principles of development; changes in sounds, form and meaning; language structure; writing and spelling in relation to speech; language and nationality; language families, with special reference to the distribution of the Indo-European languages.

**B. Latin Historical Grammar.**

The historical development is exemplified by a study of early inscriptions.

**C. Greek Historical Grammar.**

The historical development is exemplified by a study of certain Greek dialect inscriptions.

**D. Comparative Grammar of Greek and Latin.**

An outline of courses B and C, primarily for Honour students in Classics.

**E. Elementary Sanskrit.**

Introduction to Sanskrit inflexions and texts, and comparison with Greek and Latin forms.

**F. Greek Dialects.**

A study of selected dialect inscriptions with special reference to dialectic peculiarities, the relationship of the dialects to one another, and their influence on the literary dialects.

**G. Oscan and Umbrian.**

A grammatical survey of the Oscan and Umbrian dialects, with a detailed study of the important inscriptional texts and the relationship of these dialects to Latin.

All courses are Colloquia of two hours weekly.



## DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

PROFESSOR OF POLITICAL ECONOMY:—STEPHEN LEACOCK.

PROFESSOR OF ECONOMICS AND POLITICAL SCIENCE:—  
JOSEPH CLARENCE HEMMEON.

ASSOCIATE PROFESSOR OF ECONOMICS:—JOHN PERCIVAL DAY.

ASSISTANT PROFESSOR OF ECONOMICS:—JOHN THOMAS CULLITON.

LECTURER IN ECONOMICS:—EUGENE FORSEY.

## COURSES FOR THE DEGREE OF MASTER OF ARTS

**\*A. Social and Industrial Legislation.**

Three hours, first term.

**\*B. Great Britain: Economic and Fiscal Problems.**

Three hours, second term.....Professor Day.

**\*C. Transportation.**

Three hours, second term.....Professor Culliton.

**\*D. Economic History.**

Three hours, second term.

**\*E. Economic Statistics.**

Three hours, first term.....Prof. Howat.

**F. Development of Public Policy in Canada, 1867-1897. Par-**  
liamentary Debates and Contemporary Documents.

Mon., Wed., Fri., first term, at 3.....Professor Leacock.

**G. Development of Public Policy in Canada, 1897-1914. Par-**  
liamentary Debates and Contemporary Documents.

Mon., Wed., Fri., second term, at 3.....Professor Hemmeon.

**H. Economic Journal Group.**The Discussion and Criticism of Articles in Economic Jour-  
nals. One hour, Fri. at 5.....Professor Hemmeon.**I. Graduate Seminar.**(Conferences with individual students on thesis work.) One  
hour.

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\* These courses are also open to undergraduates.



The work in the Department is carried out with special reference to the study of the economic and political problems of Canada.

No students are admitted except those who have taken an Honour B.A. degree in the Department or who have completed elsewhere a course accepted by the Department as equivalent to that standing.

#### COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The Ph.D. degree is awarded on a course of study extended over three or more years under the following conditions:—

1. Qualifications for entrance are those now obtaining for admission to graduate study in Economics and Political Science.

2. First year of study:—The M.A. course and successful candidacy for the M.A. degree.

3. Second year:—An approved course of study at a University outside of Canada in continuance of the work on the thesis subject already selected.

4. Third year:—Resident study at McGill under the general supervision of the Department, with no fixed hours or fixed units, the work to bear on the thesis subject, and to include the preparation and printing *in book form* of the thesis, such thesis to represent a genuine and useful contribution to the literature of Economics and Political Science as concerning especially the British Empire.

5. The order of study of the Second and Third year may be reversed.

6. The holder of a position on the Staff of McGill may count his years in such a position as equal to resident study in the ratio of two teaching years to one of study.

#### DEPARTMENT OF EDUCATION

PROFESSOR OF EDUCATION:—F. CLARKE.

An applicant must hold a Bachelor's Degree, and the content for such degree must be sufficiently relevant to the purposes of High School teaching. He must also have reached a standard that is deemed satisfactory by the Graduate Faculty. In judging the standard attained, the Faculty will be prepared to take into consideration studies or teaching-work carried out subsequently to graduation, as well as the quality of the work done for the Bachelor's Degree.



## COURSES FOR THE DEGREE OF MASTER OF ARTS

Candidates will be required to take such of the undermentioned courses as may be prescribed for them by the Graduate Faculty:

- A. Course 1 in Education.
- B. Course 2 in Education.
- C. Weekly Seminar in Education.....Professor F. Clarke.
- D. An approved course in Psychology or Philosophy.

Other courses in subjects required for school work may be selected and approved.

Attendance is also required for individual discussion of the subject of the thesis. The thesis must deal with a topic having reference to Education, and must involve independent investigation.

## DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSOR OF ELECTRICAL ENGINEERING:—CLARENCE V. CHRISTIE.

ASSOCIATE PROFESSOR:—G. A. WALLACE.

ASSISTANT PROFESSOR:—E. G. BURR.

LECTURER:—F. S. HOWES.

The Departmental laboratories are well equipped for carrying out investigations in the various fields listed below under the classification of Electrotechnics; and adequate library facilities are available in the departments of Electrical Engineering and Physics.

## COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- A. Advanced Mathematics.—Lectures and study under the direction of the Department of Mathematics.  
Lectures, two hours per week.....Professor Gillson.
- B. Electrical Physics.—Lectures and study under the direction of the Department of Physics.  
Lectures, two hours.....Professors King, Keys and Shaw.
- C. Electrotechnics.  
Lectures, two hours.  
Colloquium, two hours.



The following courses are offered:—

- (a) Design of Electrical Machinery. Special problems of design .....Professor Christie
- (b) The Protection of Electrical Power Systems.  
Professor Burr.
- (c) Stability of Electrical Systems under normal and transient conditions; determination of short-circuit currents; design of generators and excitation systems for maximum stability.....Professors Christie and Burr.
- (d) Inductive Co-ordination of Power and Signal Systems.  
Professors Christie and Wallace.
- (e) Electric Circuit Analysis. The general theory of electrical networks composed of constant circuit elements.  
Dr. Howes
- (f) Advanced Wire Transmission Theory.  
Professor Wallace.

The Thesis may be in one of the following fields of investigation: Design of Electrical Machinery, Properties of Dielectrics and Electric Insulators, Electric Measurements, Protective Devices, Power System Stability under Normal and Transient Conditions, Inductive Co-ordination of Power and Signal Systems, Telephone Transmission Circuits, Radio-frequency Measurements, Acoustical Measurements.

The student, in addition to passing the examination in the courses in Mathematics, Physics and Electrotechnics, and presenting a suitable thesis, is required to solve a group of problems bearing on the subject of his thesis, to read and master a selected group of papers from the engineering literature of his chosen subject, and to pass an examination in the general subject.

#### DEPARTMENT OF ENGLISH

PROFESSOR OF ENGLISH:—CYRUS MACMILLAN.

ASSOCIATE PROFESSORS:— $\left\{ \begin{array}{l} \text{GEORGE W. LATHAM.} \\ \text{HAROLD G. FILES.} \end{array} \right.$

ASSISTANT PROFESSOR:—A. S. NOAD.

#### COURSES FOR THE DEGREE OF MASTER OF ARTS

- A. Anglo-Saxon.** Beowulf and other Anglo-Saxon poems, with an examination of various problems of interpretation.  
*Prerequisite:*—English 12 (in the undergraduate course).  
Two hours.....Professor Latham.



- B. The English and Scottish Popular Ballads**, with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe. Lectures and theses.  
Two hours.....Professor Macmillan.
- C. Chaucer.** Investigation of special topics and preparation of papers by members of the class.  
*Prerequisite:*—English 14 (in the undergraduate course).  
Two hours.....Professor Latham.
- D. The Drama in England from 1660 to the present time.** The development of the heroic play; the comedy of manners; the sentimental comedy; the ethical drama of the 18th century; the ballad opera; the drama of the 19th century; modern tendencies.  
Two hours.....Professor Macmillan.
- \*E. Spenser and Milton.**  
First term; Tu., Th., Sat., at 12.....Professor Latham.
- \*F. Shakespeare (Six Plays).**  
Mon., Wed., Fri., at 10.....Professor Macmillan.
- \*G. English Poetry from 1798 to the present time.** A study of the beginnings of the Romantic Movement in England and a detailed consideration of the work of the chief English poets from Wordsworth to the present time.  
Mon., Wed., Fri., at 11.....  
Professor Macmillan, Professor Noad, and an Assistant.
- H. English Novelists, from Richardson to the present time.**  
Tu., Th., Sat., at 10.....Professor Files.
- \*I. The English Drama, 1590-1642.**  
Mon., Wed., Fri., at 11.....  
Professors Macmillan and Files.
- \*J. Anglo-Saxon.**  
Mon., Wed., Fri., at 2.....Professor Latham.

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\* Courses marked with an asterisk are undergraduate Honour courses in the Faculty of Arts and Science, which may also be followed by graduate students who have not already taken them.



- \*K. The Technique of the Drama.** Play production; scenic and lighting effects; play structure, etc.  
Lectures and demonstrations in Moyse Hall, Tu., at 10 a.m.  
Laboratory hours to be arranged.....  
Professor Macmillan, Miss Gray and Assistants.
- \*L. Chaucer.**  
Tu., Th., Sat., at 12.....Professor Latham.
- \*M. Comparative Literature.**  
The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries.  
Three hours.....Professor Noad.
- \*N. Comparative Literature.**  
A study of some literary types from the Renaissance to the present day, with particular reference to the influence of Continental Literatures upon English.  
Tu., Th., Sat., at 9.....Professor Noad.
- O. Memoirs and Memoir Writers.**  
A discussion of outstanding works in this class from St. Augustine to the early 19th century.  
Two hours.....Professor Noad.
- P. Middle English. Language and Literature.**  
Three hours.....Professor Latham.
- Q. Mystical and Other Religious Literature in English During the Later Seventeenth and the Eighteenth Centuries.** An investigation into the earlier phases of the conflict between rationalism and mysticism, with especial emphasis on the influence of Jacob Boehme in England.  
Two hours.....Professor Files.
- R. Literary Criticism.** In this course some time is devoted to types and methods of criticism, but it is for the most part concerned with the history and analysis of leading critical thought in the West, from Plato until the present time.  
Two hours.....Professor Files.

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\* Courses marked with an asterisk are undergraduate Honour courses in the Faculty of Arts and Science, which may also be followed by graduate students who have not already taken them.



- S. **Shakespeare.** A study of special topics; Shakespeare's debt to his own and earlier times, and his growth as a poet and dramatist.

Two hours.....Professor Macmillan.

- T. **Epistolary Literature.** A discussion of outstanding examples of letter-writing from Cicero and Pliny to Stevenson. Special attention is given to the social and literary background reflected in the typical work of each period.

Two hours.....Professor Noad.

- U. **An advanced course in the Technique of the Drama.**

*Prerequisite:*—Course K or its equivalent.

Two hours and laboratory periods.....

Miss Gray and other members of the Department.

#### GRADUATE COURSES

Candidates for the degree of M.A., taking English as their only subject, must select four courses, of which two must be from A to D (inclusive), and O to T, while J, or its equivalent, is compulsory.

#### DEPARTMENT OF ENTOMOLOGY

(Macdonald College)

PROFESSOR OF ENTOMOLOGY:—W. H. BRITTAİN.

ASSISTANT PROFESSOR:—E. M. DU PORTE.

LECTURER:—

The Department of Entomology contains the usual equipment for laboratory work, including the following collections: (1) a growing systematic collection of mounted insects, (2) a collection of economic insects in all stages with samples of the injury caused by these insects, (3) a large collection of named and unnamed insects, mostly local, for the use of students in morphology and taxonomy. The laboratories are well equipped and one large well-lighted laboratory is set apart for the use of advanced students in entomology. A greenhouse and insectary are available for life-history studies. A laboratory for the study of problems in insect physiology and physiological ecology is projected and some of the equipment is already available.



The College Library contains an entomological section. There is a departmental library consisting chiefly of works on economic entomology, including a set of experimental station bulletins. The private libraries of the members of the staff, containing many items not available in the general and departmental libraries, are open to advanced students.

In addition there is a large collection of insects and books available through the Lyman bequest and housed in the Redpath Museum. Advanced students have access to these as well as to the Blacker Zoological Library housed in the Redpath Library Building.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND  
DOCTOR OF PHILOSOPHY

**A. Taxonomy.**

Literature of entomology; how to make and use indices, catalogues, check-lists, bibliographies, etc.; zoological nomenclature; history of entomological systems; classification and the principles of classification.

Each student must bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

One lecture, one colloquium and four laboratory hours per week.

Professor Du Porte.

**B. Insect Morphology and Physiology.**

A comparative study of insect morphology, development and phylogeny; the histology and physiology of organs; research on assigned topics.

One lecture, one colloquium and four hours laboratory per week.

Professor Du Porte.

**C. Economic Entomology.**

(a) *Principles of Insect Control.*

This course includes a consideration of the principles underlying the control of crop-destroying insects, including:

- (1) the principal natural control factors and their artificial manipulation.
- (2) the methods employed in destroying insects by cultural, mechanical and chemical means, and
- (3) a study of plant quarantine legislation in various parts of the world.

One lecture and one colloquium per week for one term.

Professor Brittain.



(b) *Organization and Methods in Economic Entomology.*

A study of the history and development of economic entomology throughout the world; the methods used in economic entomological research; the preparation of technical and popular treatises on economic entomology.

One lecture and one colloquium per week for one term.

Professor Brittain.

(c) *The Insect Pests of Crops.*

A laboratory study of the main groups of crop-destroying insects, including their biologies, life histories and control, examples being taken from representatives of the chief economic crops of the world, with special emphasis upon local fauna.

Four laboratory hours per week throughout the year.

Professor Brittain.

D. *Parasitology.*

The morphology, classification, biology, and pathogenesis of the three great parasitic groups: Protozoa, Helminthes and Arthropoda; laboratory diagnosis. Consideration of control directed chiefly to preventive measures, but curative methods also discussed.

Two lectures, three laboratory hours per week..Professor Du Porte.

E. *Medical and Veterinary Entomology.*

A study of insects and other arthropods concerned in the causation of disease in man and domestic animals. The biology and habits of the hosts in relation to disease transmission by insects. Epidemiology of insect-borne diseases. Entomological aspects of sanitation in cities, towns, farming communities and military camps.

Two lectures, three laboratory hours per week for one term.

Professor Du Porte.

F. *Ecology.*

With special reference to insects. Physical, chemical and biotic factors in the environment and the adjustment of organisms to these factors.

Inter-relations between animals and between animals and plants.

Physiological life histories.

Behaviour.

Synecology (genetic and geographic).

Two lectures a week, first term.....Professor Du Porte.

G. *Seminar.*

One and one-half hours weekly..Professors Brittain and Du Porte.



### H. Research in Entomology.

Facilities are available for a limited number of students to carry on research in economic entomology or insect biology.

Four laboratory periods per week.....Professor Brittain.

Courses offered by the Department of Zoology may also be taken.

*Prerequisites:* A high standing in the undergraduate courses at Macdonald College in Zoology and Entomology, or equivalent standing elsewhere. Any deficiencies must be made good before proceeding to graduate courses.

*M.Sc. Requirements:* A good standing in the selected courses of this subject; research work and thesis. A minimum of one year of resident study is also required.

*Ph.D. Requirements:* The Ph.D. in Entomology may be awarded after completing the following requirements:

1. The prerequisites for registration are the same as for the M.Sc. degree.
2. The student must spend two years of resident study and research at Macdonald College, and another year, taken preferably between these two years, at an approved university other than McGill.
3. The student is also required to spend the equivalent of two summer seasons in research work at a government laboratory or other approved research institution.
4. The candidate must present a thesis setting forth his original research, and pass the required examinations.

### DEPARTMENT OF EXPERIMENTAL MEDICINE AND SURGERY

PROFESSOR OF MEDICINE AND CHAIRMAN OF DEPARTMENT:—

J. C. MEAKINS.

PROFESSOR OF SURGERY:—E. W. ARCHIBALD.

CLINICAL PROFESSOR OF NEUROLOGICAL SURGERY:—W. G. PENFIELD.

ASSISTANT PROFESSOR OF MEDICAL RESEARCH:—C. N. H. LONG.

ASSISTANT PROFESSOR OF NEUROLOGICAL SURGERY:—W. V. CONE.

Candidates for the higher degrees must have a Bachelor's Degree or the Degree of Doctor of Medicine and present evidence of suitable preparation in chemistry, physiology, and pathology.



## COURSES FOR THE DEGREE OF MASTER OF SCIENCE

- A. Colloquium. Pathological Physiology and Biochemistry.  
One hour a week.....Professors Meakins and Long.
- B. Seminar. Experimental Medicine.  
One hour a week.....Professors Meakins and Long.
- C. Seminar. Experimental Neurology.  
One and a half hours a week....Professors Penfield and Cone.
- D. Seminar. Experimental Surgery.  
One hour a week.....Professor Archibald and Assistants.
- E. Tutorial. Two hours a week.  
Professors Meakins, Archibald, Penfield, Cone and Long.

All candidates for this degree must take at least three of the above courses and devote all the remainder of their time to experimental research, the accomplishment of which, as embodied in their thesis, will be the main consideration in recommending them for this degree.

## REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The above courses are continued throughout all years of graduate study and the experimental research must be of a fundamental and far-reaching character.

In addition to courses leading to the M.Sc. and Ph.D. degrees, the Faculty of Medicine offers opportunity for advanced study in the clinical field to properly qualified graduates who are willing to spend at least six months or a year on intensive work.

For information, graduates should apply to the Secretary of the Faculty of Medicine, McGill University.

## DEPARTMENT OF GEOLOGICAL SCIENCES

PROFESSOR OF GEOLOGY AND CHAIRMAN OF THE DEPARTMENT:—  
JOHN J. O'NEILL.

PROFESSOR OF MINERALOGY:—RICHARD P. D. GRAHAM.

PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.

ASSISTANT PROFESSORS OF GEOLOGY:—  
{
J. E. GILL.  
F. F. OSBORNE.

LEROY FELLOW IN GEOLOGY:— \_\_\_\_\_.



## COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Students must take Courses A to G, inclusive.

**A. Elementary Structural and Dynamical Geology.**

Lectures and colloquia, two hours per week....Professor Gill.

**B. Geological Colloquium.**—Papers on a great variety of geological topics are assigned to students for review and concise presentation as a preface to general discussion. Each year, this course must be taken by all graduate students in Geology. One hour per week.

**C. Ore Deposits.**—As in "Mineral Deposits," by Lindgren; "Economic Aspects of Geology," by Leith; "Principles of Economic Geology," by Emmons; and assigned readings and problems.

Seminar, four hours.....Professor O'Neill.

**D. Optical Mineralogy.**—Methods of determining the various optical properties of minerals. Optical chapters in Miers' "Mineralogy" and Dana's "Text-Book of Mineralogy"; Tutton's "Crystallography and Practical Crystal Measurement," "Elements of Optical Mineralogy," Pts. I and II, by Winchell.

One lecture and three hours laboratory per week during the first term .....Professor Graham.

**E. Petrography.**—As in "Petrology for Students," by Harker, and "Essentials for the Microscopical Determination of Rock-forming Minerals and Rocks," by Johannsen, "Principles of Petrology," by Tyrrell; also "Microscopic Examination of Ore Minerals," by Davy and Farnham. At least nine hours laboratory per week on thin and polished sections.

Professors Graham and Osborne.

**F. Stratigraphy.**—This course consists of two parts. First, Sedimentation; a consideration of the source and origin of sedimentary rocks, the significance of their structures and textures and the structural relationships of strata. Second, Correlation; the means by which it is achieved, index fossils, principle of superposition, stratigraphic continuity, etc.; also the subjects of stratigraphic nomenclature and paleogeography. Brief reference is made to economic products of sedimentary rocks.



Two hours, first term; Mon., Fri., at 11. One hour laboratory, and two full days field work during October.

One half course.....Professor Clark.

- G. Palæontology**—The development of ideas concerning the origin of fossils. A brief survey of systematic palæontology, in which the fossils of the major biological groups are treated in order. The economic importance of palæontology; the meeting place of biology and geology; the bearing of palæontology upon the doctrine of evolution.

Two hours, second term; Mon., Wed., at 11. Three hours laboratory, Wed., 2 to 5 p.m.....Professor Clark.

- H. Physiography and Natural Resources of Canada**.—This course must be taken by those who have not taken it in Fourth Year Arts.

One lecture and three hours laboratory per week.

Professor Gill.

Students who have satisfactorily completed undergraduate courses in general geology, mineralogy, determinative mineralogy, petrography, Canadian geology, stratigraphy, practical geology, and ore deposits, or their equivalents, may expect to complete their M.Sc. course in one year; those specializing in economic geology must have certain engineering credits in addition to the above.

#### COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

##### (Second and Third Years)

- 1. Pre-Cambrian Geology**.—The character and distribution of Pre-Cambrian rocks. Methods of interpretation and of correlation, etc.

Lectures and seminar at least two hour per week; first term .....Professor O'Neill.

- J. Geological Map Interpretation.**

One hour seminar with assigned problems....Professor Gill.

- K. Geophysics and Geo-Chemistry.**

Includes eight to ten lectures on Methods of Geophysical prospecting given by the Department of Physics (if a sufficient number of students apply).

"Applied Geophysics in the Search for Minerals," by Eve and Keys; "Data of Geo-Chemistry," by Clark.



- L. Advanced Petrography.**—"Igneous Rocks," by Iddings, vols. 1 and 2; "Natural History of Igneous Rocks," by Harker; "Treatise on Sedimentation," by Twenhofel; "Igneous Rocks and Their Origin," by Daly; "Text-book of Petrology," by Hatch, Wells, and Rastall; "The Evolution of the Igneous Rocks," by Bowen.

*Reference Books:*—"Massige Gesteine," by Rosenbusch; "Rosenbusch Elemente der Gesteinslehre," Osann; "Grundlagen der physikalisch-chemischen petrographie," by Boeke and Eithel; "Chemische Geologie," by Behrend and Berg.

At least nine hours laboratory work per week.

Professors Graham and Osborne.

- M. Advanced Mineralogy.**—Studies of the less common minerals and their determination by optical and other characters. Assigned readings on constitution, isomorphism, alteration, etc., of minerals, and general geophysical data as represented by papers published by the Carnegie Geophysical Laboratory. Three hours laboratory per week.....Professor Graham.

- N. General Reading.**—"Aspects of the Earth," by Shaler; "The Voyage of the Beagle," by Darwin; "Age of the Earth," by Sollas; "Geological Sketches," by Sir Archibald Geikie; "Founders of Geology," by Geikie; "Biological Essays," by Huxley; etc.

- O. Physiography.**—Selected readings and assigned problems dealing with the nature and origin of topographic forms.

Professor Gill.

- \*P. Advanced Palæontology.**

Hours to be arranged.....Professor Clark.

- †Q. Advanced Economic Geology.**—Assigned readings and studies of outstanding examples of various types of mineral deposits and of the application of Geology to the petroleum industry and to engineering problems; the preparation of geological reports.

Seminar, two hours.....Professor O'Neill.

- †R. Advanced Structural and Dynamical Geology.**—As in "Das Antlitz der Erde," vols. 1, 2, 3, and 4, by E. Suess. Students

\* For students wishing special work in Palæontology.

† Courses Q and R may be given in alternate years.



are also held responsible for "Structural Geology," by Leith; "Metamorphic Geology," by Leith and Mean; "Bild und Bau der Schweizer Alpen," by C. Schmidt; "Mechanics of Appalachian Structure," by Willis (13th Annual Report U.S.G.S.); Selected Readings from "Mechanismus der Gebirgsbildung," by Heim, and "Treatise on Metamorphism," by Van Hise; numerous papers on mountain building and isostasy.

At least two hours seminar per week.

Professors O'Neill and Gill.

Ph.D. students must complete Chemistry 58, 61 and 62, Faculty of Engineering, if not previously taken.

The Final (Third) Year of the Ph.D. course will be almost exclusively devoted to research work in connection with the preparation of the thesis.

#### DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURE

PROFESSOR OF GERMANIC LANGUAGES AND LITERATURE:—H. WALTER.

ASSOCIATE PROFESSOR:—W. L. GRAFF.

ASSOCIATE PROFESSOR OF ENGLISH:—G. W. LATHAM.

#### COURSES FOR THE DEGREE OF MASTER OF ARTS

##### A. Goethe.

One hour.....Professor Graff.

##### B. Geschichte des deutschen Romans.

One hour.....Professor Graff.

##### C. Hebbels Dramen.

One hour.....Professor Walter.

##### D. Gothic and Introduction to Germanic Philology.

One hour.....Professor Latham.

Candidates who have not taken German Philology and Mediæval Texts in their undergraduate course must take it as part of their M.A. course, except when German is taken as a minor.



## DEPARTMENT OF HISTORY

PROFESSORS OF HISTORY:— $\left\{ \begin{array}{l} \text{W. T. WAUGH.} \\ \text{C. E. FRYER.} \end{array} \right.$

ASSOCIATE PROFESSOR:—E. R. ADAIR.

ASSISTANT PROFESSOR:—T. W. L. MACDERMOT.

## COURSES FOR THE DEGREE OF MASTER OF ARTS

**A. Historical Method and Criticism.**

Seminar, one hour.....Professors Waugh, Fryer and Adair.  
This course will not be given in 1931-32.

**B. The Early History of the English Parliament.**

Seminar, one hour.....Professor Waugh.

**C. Joan of Arc and Her Times.**

Seminar, one hour.....Professor Waugh.

**D. The Reign of Charles I.**

Seminar, one hour.....Professor Adair.

**E. William Pitt and the Conquest of Canada.**

Seminar, one hour.....Professor Adair.

**F. Industrial Democracy in England.**

Seminar, one hour.....Professor Fryer.

**G. Problems in World Politics Since 1878.**

Seminar, one hour.....Professor Fryer.

**H. A Selected Period in the History of Canada Since 1760.**

Seminar, one hour.....Professor Fryer.

**I. History of a Quebec Parish.**

Seminar, one hour.....Professor Adair.

Graduate work in the Department of History is directed through Seminars and Conferences. Students are expected to acquire a sound knowledge of methods of historical research and the ability to apply them in practice. The Redpath Library is well equipped with printed sources for the periods and subjects mentioned above, and students



pursuing research in Canadian History may be required, if occasion arises, to avail themselves of the manuscript resources of the Dominion Archives at Ottawa and the Provincial Archives at Quebec, and of parochial and other records in Montreal and its vicinity.

#### DEPARTMENT OF MATHEMATICS

PROFESSOR OF PURE MATHEMATICS:—CHARLES T. SULLIVAN.

PROFESSOR OF APPLIED MATHEMATICS:—NEIL BRUCE MACLEAN.

ASSOCIATE PROFESSORS OF MATHEMATICS:— $\left\{ \begin{array}{l} \text{ALBERT H. S. GILLSON.} \\ \text{W. L. G. WILLIAMS.} \end{array} \right.$

ASSISTANT PROFESSOR:—HERBERT TATE.

ASSISTANT PROFESSOR:—DAVID HOWAT.

#### COURSES FOR THE DEGREE OF MASTER OF ARTS

**\*A. Introduction to the Theory of Functions of a Real Variable.**

Three hours.....Professor Williams.

**\*B. Introduction to the Theory of Functions of a Complex Variable.**

Three hours.....Professor Sullivan.

**C. Theory of Numbers.**

Introduction to the classical theory of numbers; arithmetical properties of hypercomplex numbers, etc.

Two hours.....Professor Williams.

**D. Methods of Mathematical Physics.**

This course is designed to include an account of the various mathematical methods available for modern Physics, with special reference to contemporary Wave Mechanics.

Two hours.....Professor Gillson.

**E. Differential Geometry.**

Two hours.....Professor Sullivan.

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\* Open also to undergraduates of the Fourth Year in the Honour course.



- F. **Differential Equations and Advanced Calculus.**  
Two hours.....Professor MacLean.
- G. **Theory of Generalized Relativity.**  
Two hours.....Professor Gillson.
- H. **Theory of Invariants.**  
Two hours.....Mr. Howat.
- I. **Theory of Algebraic Plane Curves.**  
Two hours.....Professor Sullivan.
- J. **Calculus of Variations.** Professor MacLean.
- K. **Projective Geometry.** Professor Tate.
- L. **Matrices, Substitutions, and Groups.**  
An introduction to modern Algebra, with especial reference to  
the topics most prominent in Mathematical Physics.  
Two hours.....Professor Williams.

Courses A, B, D, F are given annually. An additional one of the courses listed above will be given, if a sufficient number of qualified students present themselves.

Students taking a Minor in Mathematics for the M.Eng. degree must have as preliminary training the Mathematics required of undergraduates in Engineering, with an additional more advanced course in Mathematics.

Students taking a minor in Mathematics for the degree of M.A. or M.Sc. must present courses in Mathematics equivalent to those required in the first three years of the honour course in Mathematics and Physics, together with one additional course approved by the department.

For a Minor in Mathematics for the Ph.D. degree the student must have the equivalent of the Mathematics required in the honour course in Mathematics and Physics, and an additional graduate course in Mathematics.

The final examinations in Mathematics as a Minor for the Ph.D. degree include two papers; one on the graduate course, and a general paper on the facts and principles of the more elementary phases of the honour courses in Mathematics and Physics.

No candidate for the M.A. or M.Sc. degree in Mathematics will be accepted unless he has the equivalent of honours in Mathematics at McGill.



## DEPARTMENT OF MECHANICAL ENGINEERING

PROFESSORS OF MECHANICAL ENGINEERING:— $\left\{ \begin{array}{l} \text{ARTHUR R. ROBERTS.} \\ \text{CHARLES M. MCKERGOW.} \end{array} \right.$

PROFESSOR OF FUEL ENGINEERING:—LESSLIE R. THOMSON.

ASSISTANT PROFESSOR:—JAMES A. COOTE.

## COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

A. **Engineering Thermodynamics.** Prerequisites, \*Courses 220 and 251.

Three hours colloquia.....Professor McKergow.

B. **Machine Design.** Prerequisites, \*Courses 225 and 242.

Three hours colloquia.....Professor Roberts.

C. **Industrial Engineering.** Prerequisites, \*Courses 253, 254, 258 or their equivalent

Two hours lectures and two hours colloquia..Professor Coote.

D. **Fuel Engineering.** Prerequisites a B.Eng. in Mechanical, Mining or Chemical Engineering.

Four hour lectures. Each student will spend a minimum of four months at some industrial plant or plants, at which arrangements for his studies will have been made by the University.

Professor Thomson.

*\* These numbers are those of courses given in the Faculty of Engineering.*

## DEPARTMENT OF METALLURGICAL ENGINEERING

PROFESSOR OF METALLURGY:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON ST. GEORGE SPROULE.

SESSIONAL LECTURER:—HAROLD J. ROAST.

## FACILITIES FOR GRADUATE STUDY

*Library.*—A working library of metallurgical books, periodicals, the proceedings of scientific and technical societies, and a file of technical papers and cuttings from journals of metallurgical interest are available in Professor Stansfield's office. Students have access to the books and periodicals of the Baillie Chemical Library.



*Laboratories.*—No separate laboratories are available for graduate students, but they have the use of the general laboratories of the Department. The equipment available for their use may be summarized as follows:—

Furnaces for the production of moderate and high temperatures, using solid or gaseous fuel or electrical heat

Apparatus for the measurement of high temperatures, for the automatic recording of these temperatures and for automatic control of furnace temperatures.

Appliances for holding, measuring and analyzing gases and for studying the reactions between these gases and ores or other materials.

A chemical laboratory in which chemical analyses and small scale experiments in hydro-metallurgy can be made.

Facilities for making fire-assays of ores and metallurgical products.

Apparatus for the microscopic, X-ray, and physical testing of metals and alloys.

#### COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

**A. General Advanced Metallurgy.** A series of advanced studies of the theory and practice of metallurgy, taken from the following list:—

Physical properties and allotropic changes of metals.

Constitution and properties of metallic alloys.

Constitution and properties of slags and mattes.

Chemical equilibria, thermo-chemistry and speed of chemical reactions in metallurgical practice.

Design and efficiency of fuel-fired and electrical furnaces.

Properties, cleaning and utilization of furnace gases.

Electrolysis as applied to the refining and recovery of metals.

X-ray examination of metals.

Instruction is given by directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Professors Stansfield, Sproule and Mr. Roast.

**B.** The same as A, but including a special study of one or more selected metals, or of some special branch of metallurgy, such as electro-metallurgy or hydro-metallurgy. (Alternative with A).....Professor Stansfield.

**C.** The same as A, but including a course of instruction and laboratory work on the properties of metals and refractory materials and the use of metallurgical testing instruments. (Alternative with A).....Professors Stansfield and Sproule.



The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

- D. **Advanced Metallurgy.** Fourth Year Engineering, No. 272.  
Two hours lectures.....Professor Stansfield.
- E. **Electro-Metallurgy and Laboratory.** Fourth Year Engineering, No. 275.  
Two hours lectures and one laboratory period in second term.  
Professor Stansfield.
- F. **Metallurgical Analysis.** Fourth Year Engineering, No. 279.  
One hour lecture and one laboratory period in second term.  
Mr. Roast.
- G. **Metallography and Laboratory.** Fourth Year Engineering, Nos. 280 and 281.  
One hour lecture and one laboratory period in first term.  
Mr. Roast.

#### COURSES OF STUDY FOR THE DEGREE OF MASTER OF ENGINEERING

Each student is required to follow a course of reading with lecture or tutorial instruction and laboratory work, as outlined above (A to C). He must also take certain Undergraduate Courses, usually in the Department of Chemistry. About one-half of his time is devoted to the investigation of some particular metallurgical problem by directed reading, discussion with the Head of the Department and experimental work in the laboratory. The result of this investigation is presented in the form of a thesis.

As far as possible, the experimental work required for a student's thesis is his own individual work, but two or three students are permitted to work together on laboratory work for a thesis if it appears necessary, under strict supervision.

#### EXAMINATIONS FOR STUDENTS PROCEEDING TO THE DEGREE OF MASTER OF ENGINEERING

Each student is required to take two written examinations, one dealing with the general course of study he has followed, and the other dealing with the subject matter of his thesis. He also takes the regular examinations in any undergraduate subjects included in his course.

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NOTE.—Graduates in Chemical Engineering in the Inorganic Option are allowed to specialize in Metallurgy—including two summers' work and a year of metallurgical study in the Graduate Faculty—and if successful are given the degree of M.Eng or M.Sc. in Chemistry.



## DEPARTMENT OF MINING ENGINEERING

PROFESSOR OF MINING ENGINEERING:—WILBERT G. MCBRIDE.

PROFESSOR OF ORE DRESSING:—JOHN W. BELL.

The Department of Mining Engineering has laboratories for ore dressing and certain kinds of mining work, such as compressed air generation and measurement. Small scale equipment provides means for the study of crushing and grinding, cyanidation, amalgamation, flotation, screening, classification, filtering, concentration by gravity methods and other processes used in the milling of ores. Particular attention is paid to cyanidation and flotation. In flotation the plant is so arranged that continuous operation is secured, and selective flotation of two or more minerals is carried on under conditions which closely approximate large scale operations in both practice and results obtained. The laboratory also contains facilities for assay, analysis, and microscopic study of the ore and mill products, as well as other aids to advanced investigation work.

The Departmental Library and Reading Room contain the latest books on mining and ore dressing, and a very comprehensive set of periodicals, transactions of the mining and metallurgical societies, government publications and other literature bearing on mining and ore dressing.

## COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

*Undergraduate Course open to Graduate Students who have not already taken it as Undergraduates.*

- A. **Mining Engineering.** Course 297 in the Faculty of Engineering (see Page 332). The whole of this course of three lectures per week for two terms, or selected portions of it (methods of mining), is suitable as part of the requirements for the M.Eng. degree for students who have not taken this course while undergraduates.....Professor McBride.

*Advanced Courses open to Graduate Students only*

- B. **Works Organization and Management.** With special reference to Mining Ore Dressing, and Smelting establishments. One lecture per week for one term.....Professor McBride.
- C. **The Settling of Finely Divided Minerals in Water.** Theories of classification and settling, the effect of temperature and of



various electrolytes, colloids and flocculents, the calculation of settling rates and the design of settling tanks.  
Two lectures and one laboratory period for one term.

Professor Bell.

D. **Classification Laboratory.** Advanced students who wish to supplement Course C- will be given one or two laboratory periods per week for one term.....Professor Bell.

E. **Filtration in Ore Dressing and Cyanidation.** Theoretical and practical conditions governing the removal of finely divided and semi-colloidal minerals from water and dilute solutions by means of mechanical filtration apparatus.

One lecture and one laboratory period per week for one term.

Professor Bell.

F. **Filtration Laboratory.** Advanced students who wish to supplement Course E are given one or two laboratory periods per week for one term.....Professor Bell.

G. **The Cyanidation of Gold and Silver Ores.** Advanced studies of the theory and practice of cyanidation.

One lecture per week for one term.....Professor Bell.

H. **Cyanidation Laboratory.** Advanced students who wish to supplement Course G are given one or two laboratory periods per week for one term.....Professor Bell.

I. **The Theory and Practice of Flotation.** Advanced studies in flotation, surface tension, etc.

Two lectures per week for one term.....Professor Bell.

J. **Flotation Laboratory.** Advanced students who wish to supplement Course I are given one or two laboratory periods per week for one term.....Professor Bell.

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NOTE.—The Department reserves the right to substitute tutorial instruction in place of set lectures when the classes are small enough to warrant the change. It is also prepared to increase the amount of work in certain of the courses when desirable.

Permission is given for two or more graduate students to work together on the physical part of an investigation, when the nature of the problem and the facilities in the laboratory make it desirable to do so.

No collusion in the working up of results and in the writing of the thesis is allowed.



DEPARTMENT OF ORIENTAL (SEMITIC) LANGUAGES AND  
LITERATURE

PROFESSOR OF HEBREW AND SEMITIC LANGUAGES, LAW AND HISTORY:—

C. A. BRODIE BROCKWELL.

PROFESSOR OF HEBREW:—

PROFESSOR OF JEWISH HELLENISTIC LITERATURE:—

GEORGE ABBOTT-SMITH.

The University Library has a fair collection of the more essential books for graduate work, supplemented by the collections in the Library of Divinity Hall, and the Libraries of the Affiliated Theological Colleges. The Egyptian, Babylonian and Palestinian Archæological Collections in the University Museum are also available to students.

COURSES FOR THE DEGREE OF MASTER OF ARTS

**A. Special Texts.**

Seminar, one hour.....Professor C. A. Brodie Brockwell.

Seminar, one hour.....Professor G. Abbott-Smith.

**B. History of Old Testament Criticism.**

Seminar, one hour.....Professor C. A. Brodie Brockwell.

**C. Semitic Anthropology.**

Seminar, one hour.....Professor C. A. Brodie Brockwell.

**D. Semitic Epigraphy.**

Seminar, one hour.....Professor C. A. Brodie Brockwell.

**E. Christian Hellenistic Texts.**

Seminar, one hour.....Professor G. Abbott-Smith.

**F. Hellenistic Grammar, Syntax and Lexicography.**

Seminar, one hour.....Professor G. Abbott-Smith.

**G. Critical Use and Values of Hellenistic Documents.**

Seminar, one hour.....Professor G. Abbott-Smith.

Students must obtain at least a high Second Class from a Semitic Language Department to be eligible for the above courses.

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N.B.—By arrangement with the Department, a selection of these courses may be taken, and additional courses will be added to meet individual needs.



## PATHOLOGY

PROFESSOR OF PATHOLOGY:—HORST OERTEL.

ASSISTANT PROFESSOR OF PATHOLOGY:—THEO. R. WAUGH.

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR  
OF PHILOSOPHY

All courses in Pathology are given in the Pathological Institute (a building of three floors and a basement containing the shop and attached animal house), which contains ample, fully equipped quarters for routine as well as advanced workers. The technical department provides facilities for studying and taking part in technical procedures in pathological research.

- \*A. The Historic, Philosophic and Scientific Foundations of Pathology. An exposition of the historical and philosophical evolution of the conception of disease, pathogenesis and the structural changes incident to it.

Two lectures and demonstrations.....Professor Oertel.

- B. Modern Tendencies and Currents in Pathology.

One hour weekly, second term.....Professor Oertel.

- \*C. The Hæmatopoietic System; Technique, Methods, Physiology and Pathology.

(Open also to *advanced* undergraduates.)

One lecture and demonstration.....Professor Waugh.

- D. Special Problems in Hæmatology.

Seminar, twice weekly.....Professor Waugh.

- E. Research into Hæmatological Problems.

Professor Waugh.

- F. Practicum and Colloquium in Pathological Anatomy. A discussion of the weekly routine work carried on in the Pathological Institute with demonstration of material and review of the recent literature pertaining to the points discussed.

One colloquium weekly.....Professor Oertel.

- G. Demonstrative Course and Practical Exercises in Pathological-Anatomical Methods and Diagnosis, including Autopsy Technique and References to Medico-Legal Practices.

Professor Oertel.

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\* These courses are also open to undergraduates.



**H. Technical Course of Methods of Pathological Investigation.**  
(According to arrangement.) (Required of all candidates as prerequisite for undertaking research.)

**REQUIREMENTS FOR THE DEGREES OF MASTER OF SCIENCE AND  
DOCTOR OF PHILOSOPHY**

Candidates for the degree of Master of Science are required to take or possess the equivalent of Course A. They are also required to attend Course F; and they may choose one of Courses B, C, D, E, or G.

Candidates for the degree of Doctor of Philosophy are expected to pay particular attention and pursue more extensive studies with seminaristic exercises in connection with Course B. They will also have to acquire a more extensive knowledge of technical methods as outlined in Course H than required for M.Sc.

Intending students should have a background of information regarding the structure and function of living organisms. This implies familiarity with biology, comparative anatomy, histology and embryology. An acquaintance with chemistry especially organic chemistry and biochemistry is necessary.

**DEPARTMENT OF PHARMACOLOGY**

**PROFESSOR OF PHARMACOLOGY:—RAYMOND L. STEHLE.**

**LECTURER:—K. I. MELVILLE.**

The laboratory is adequately equipped for research work in both the physiological and chemical aspects of the subject; working conditions are unusually satisfactory. A small library, for which the department is largely indebted to the interest of Dr. A. D. Blackader, contains the current literature most frequently desired.

Candidates for higher degrees must present evidence of suitable preparation in chemistry and physiology and must have completed the course in pharmacology as given to medical students.

It is strongly recommended that the student have a reading knowledge of German and French. If he has not he will be expected to begin making up these deficiencies immediately.

**COURSES FOR THE DEGREE OF MASTER OF SCIENCE**

- A. Advanced Pharmacology.** This consists of laboratory work of a more advanced nature than that of the course given to medical students together with such reading and conferences



as appear desirable. There are no formal lectures. The minimum of work which may be done consists of thirty laboratory periods of three hours each and reading and conferences to the extent of thirty hours. This course is suitable for anyone desiring to take a minor in pharmacology. For students majoring in pharmacology the course will be suitably extended, and in addition a piece of original investigation must be carried through.

**B. Chemical Pharmacology.** Fifteen lectures or the equivalent in reading and conferences on the chemistry (chiefly organic) of drugs.

**C. Colloquium.**

One hour weekly.

#### COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Special arrangements can be made for anyone desiring to proceed to a doctorate.

#### DEPARTMENT OF PHILOSOPHY

PROFESSOR OF LOGIC AND METAPHYSICS:—IRA A. MACKAY.

PROFESSOR OF MORAL PHILOSOPHY:—C. W. HENDEL.

PROFESSOR OF PHILOSOPHY:—A. J. D. PORTEOUS.

#### COURSES FOR THE DEGREE OF MASTER OF ARTS

\*A. Political Philosophy.

\*B. Modern Logic and Metaphysics.

\*C. Kant and his Influence on Modern Philosophy.

\*D. Seminar on Plato and Aristotle.

\*E. Seminar on Contemporary Philosophy.

F. Seminar courses will be offered on the special fields of philosophy in which candidates are studying for their theses.

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\* These courses are also open to undergraduates.



## DEPARTMENT OF PHYSICS

PROFESSORS:—  
A. STEWART EVE.  
HOWARD T. BARNES.  
LOUIS V. KING.  
A. NORMAN SHAW.  
DAVID A. KEYS.  
J. STUART FOSTER.

ASSOCIATE PROFESSORS:—  
A. H. S. GILLSON.  
HERSCHELL E. REILLEY.

ASSISTANT PROFESSOR:—W. H. WATSON.

LECTURER IN ASTROPHYSICS:—A. V. DOUGLAS.

The Physics Departmental Library, a branch of the main University Library, is one of the major assets of the Department of Physics. It includes over 1,800 books, 122 current periodicals, 460 bound volumes of periodicals, 2,000 reprints, and current catalogues of apparatus and books. The regulations permit staff and students to take out books for the night only, so that during the daytime it is always a nearly complete Reference Library. After five years most of the bound periodicals are moved to the main University Library, where the older reference books may also be found.

As regards equipment and apparatus, there is a well-equipped workshop under Mr. H. T. Pye, with two assistants. In Optics there are gratings and spectographs, including infra-red and ultra-violet instruments by Hilger; also a Moll apparatus for stellar and atomic spectra. The Electrical and Heat Laboratories are also well equipped, both for instruction and research work. The Röntgen Ray apparatus for crystal analysis is modern and varied. The provision for research is best estimated by the work carried out as stated below.

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND  
DOCTOR OF PHILOSOPHY

**\*A. Electrical Measurements.** (Arts and Science, 6A.)

A general course in electrical measurements with special attention to the theory and practice of accurate measurements of the quantities associated with direct and alternating current circuits. Wed., Fri., at 9; laboratory, Wed., 11-1; 2-4.

Professor W. H. Watson.

*Text-books:*—Law's Electrical Measurements (McGraw-Hill); Starling's Electricity and Magnetism (Longmans).

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\* These courses are also open to undergraduates.



**\*B. Light.** (Arts and Science, 6B.) (Replaced by F in alternate sessions.†)

The elements of geometrical optics; classical physical optics; laboratory instruction in interference, diffraction, polarization phenomena and spectroscopy.

Mon., at 9 (laboratory; Mon., 2-5).

Professor Keys and Dr. A. V. Douglas.

*Text-books:*—Edser's *Light* (Macmillan); Wood's *Physical Optics* (Macmillan); Drude's *Physical Optics* (Longmans).

**\*C. Electromagnetic Theory.** (Arts and Science, 7A.)

The mathematical theory of electricity; Maxwell's Equations; the classical electro-magnetic theory of light; electric waves.

Sat., at 10.....Professor Keys.

*Text-books:*—J. J. Thomson's *Electricity and Magnetism* (C.U.P.); Pierce's *Electric Oscillations and Electric Waves* (McGraw-Hill).

**\*D. Mathematical Physics.** (Arts and Science, 7B.)

An introductory course, including the elements of potential theory, hydrodynamics, conduction of heat, thermodynamics and wave theory. Problems.

Tu., Sat., at 11.....Professor Foster.

*Text-books:*—Houston's *Introduction to Mathematical Physics* (Longmans); Page's *Introduction to Theoretical Physics* (Van Nostrand).

**\*E. Molecular Physics.** (Arts and Science, 8A.)

A review of the advances in Molecular and Sub-molecular Physics during the last thirty years; including an elementary introduction to modern theories of the structure of matter, the quantum theory, and the theory of electrons.

Wed., Fri., at 9.....Professor Shaw.

*Text-book:*—Crowther's *Ions, Electrons and Ionizing Radiations* (E. Arnold).

**\*F. Theory of Heat.** (Arts and Science, 8B.) (Replaced by B in alternate sessions.†)

A reading course based on the assigned text, supplemented by weekly colloquia at which selected topics will be discussed in

\* These courses are also open to undergraduates.

† Courses B and F will be given in alternate sessions, as follows:—B in '32-'33, etc., and F in '31-'32, '33-'34, etc.



detail, including an introductory course of eight lectures on Thermodynamics. Each student is required to perform ten fundamental experiments in Advanced Heat.

Mon., at 9 (also three hours laboratory<sup>‡</sup>).

Professor Shaw and Dr. A. V. Douglas.

*Text-book*:—Robert's Heat and Thermodynamics (Blackie).

#### G. Radioactivity.

This course follows the historical development from the beginning to to-day.....Dean Eve.

Tu. and Wed., at 12; three hours laboratory, second term.

*Text-book*:—Rutherford's Radiation from Radioactive Substances (C.U.P.).

#### H. Vector Analysis.

Tu., at 9; Wed., at 10, first term.....Dean Eve.

*Text-books*:—Coffin's Vector Analysis, with references to other books by Wilson, Silberstein, Lorentz, Heaviside and others.

#### I. Advanced Statics, Dynamics, Hydrodynamics and Sound.

A continuation of Course 5, dealing largely with problems in three dimensions. Training in problem work is a special feature of this course.

Two hours.....Professor King.

*Text-books*:—Lamb's Higher Mechanics (C.U.P.); Basset's Hydro-dynamics and Sound (Deighton Bell). References to Lamb's Dynamical Theory of Sound (Arnold); Lamb's Hydro-dynamics (C.U.P.); Rayleigh's Theory of Sound (Macmillan and Co.).

#### J. Kinetic Theory of Matter.

A development of the theory of gases, including the theory of electrons in metals.

Two hours.....Professor King.

Jeans' Dynamical Theory of Gases (C.U.P.); Reference Loeb's Kinetic Theory of Gases (McGraw-Hill).

#### K. Quantum Theory.

This course follows the historic development from Planck to recent work, with the elements of quantum mechanics.

Two hours; Thurs. at 12 and another hour to be arranged.

Professor Foster.

<sup>‡</sup> The Department of Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.



*Text-books*:—Birtwistle's Quantum Theory of the Atom (C.U.P.); Ruark and Urey's Atoms, Molecules and Quanta (McGraw-Hill).

**L. Relativity.**

Introduction to modern theories of relativity. Specialized relativity, an introduction to generalized relativity with recent developments, including the mathematical analysis involved.

One hour, second term.....Professor Gillson.

**M. Advanced Electricity and Magnetism.**

Training in problems of an advanced character is specially emphasized.

Two hours.....Professor King.

*Text-book*:—Jeans' Electricity and Magnetism (C.U.P.).

*Reference*:—Gray's Absolute Measurements in Electricity and Magnetism (Macmillan).

**N. Laboratory Practice and Physical Manipulation.**

A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction of simple apparatus. This course is designed as an aid and introduction to original research.

Mr. H. T. Pye and Mr. S. Amesse.

**O. Thermodynamics.**

(Alternate sessions, 1932-33, etc.).

A general course with special attention to the physical basis of thermodynamical concepts, and to the technique of deriving and applying thermodynamical relations.

One hour.....Professor Shaw

*Text-book*:—Birtwistle's Thermodynamics.

**P. Electron Theory.**

A development of the theory of optical dispersion, molecular scattering of light, theories of magnetism, electrical and thermal conduction in metals, thermionics, and fundamental properties of the electron.

Two hours.....Professor King.

*Text-books*:—Richardson's Electron Theory (C.U.P.); Lorentz, Theory of Electrons (Teubners).

*Reference*:—Reports of the Solvay Congresses and current scientific literature.



**Q. Spherical Astronomy and Combination of Observations.**

*Text-books:*—Ball's Spherical Astronomy; Newcomb's Spherical Astronomy.

Three hours.....Professor Gillson.  
(Math. 3 and 4, prerequisite.)

**R. Astrophysics.**

Spectroscopy as applied to the problems of Astrophysics; the temperatures, sizes, positions and motions of the stars, with practical measurements on typical stellar spectrograms.

Three hours.....Dr. A. V. Douglas.  
*Text-books:*—Russell's Astronomy, vol. ii (Ginn); Dingle's Astrophysics (Collins); Stratton's Astronomical Physics (Methuen).  
(Maths D and F, and Physics 5B prerequisite.)

**S. Mathematical Physics, Wave Mechanics, Etc.**

One hour.....Professor Gillson.

**T. History and Philosophy of Modern Physical Developments.**

One hour.....Professor W. H. Watson.

Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in the Summer.

A suitable selection of the above courses may be made when Physics is taken as a minor subject. A general paper on elementary physics is also given when Physics is a minor subject.

## EXAMINATION AND THESIS REQUIREMENTS

*Prerequisite.*—The equivalent of the McGill Undergraduate Honour Course in Mathematics and Physics. A sound knowledge of differential and integral calculus, differential equations, and some acquaintance with the theory of functions; analytical geometry, plane and solid; statics, dynamics of a particle, rigid dynamics, electromagnetic theory and electrical measurements; geometrical and physical optics; theory of heat; properties of matter; an introduction to mathematical physics and to molecular physics, and at least elementary chemistry.

*M.Sc. Course and Requirements.*—A thesis on research work; a reading knowledge of French or German; a good standing in examinations on lecture courses on radioactivity, vector analysis, quantum theory, advanced electricity and magnetism; differential equations of mathematical physics.



*Ph.D. Course.*—Completion at the beginning of the Second Year of an examination proving a reading knowledge of French and German; research work; thesis on research work; further courses and acquaintance with modern physics, e.g., kinetic theory, relativity, thermodynamics, hydrodynamics, electron theory, wave mechanics, Röntgen rays, spectroscopy, astrophysics, geophysics. After taking the M.Sc. Degree a student may present himself one year later for a written and oral examination whereby he may show his general knowledge of modern physics, together with a special knowledge of some branch in which he is interested. Four papers are set each candidate at the end of May, and special attention is paid to the solution of problems set in these papers.

*Final Year.*—After passing the above examination the student devotes most of his time to research, and to the allied theoretical work and reading, so that time is also devoted to work in the library, and to conferences or colloquia. After his thesis is accepted there is an oral examination on the regions of Physics to which his research work is related.

Attendance at meetings of the Physical Society, Journal Club, and colloquium, together with the presentation of papers, form an important element in the training of M.Sc. and Ph.D. students. The above statement is descriptive of past experience. Every effort will be made by the Department to encourage enterprise in research, and originality and sound thinking, to which end all regulations are secondary and subservient.

Opportunity for research work in the following fields is at present offered in the Physics Department, under the guidance of the Professors indicated.

DEAN A. S. EVE.

Radioactivity.

Atmospheric electricity.

Geophysics.

Infra-red and ultra-violet spectroscopy.

PROFESSOR H. T. BARNES.

Ice Research.

PROFESSOR L. V. KING.

Theoretical physics.

Precision measurements in acoustics.

Electrical measurements.

PROFESSOR A. N. SHAW.

Hygrometrical theory and measurements (application to physical problems in ventilation and drying processes).



The measurement and theory of heat transmission across boundaries.

Thermoelectricity.

Precision measurements of electrical resistance and voltage.

PROFESSOR D. A. KEYS.

The phenomena of the discharge tube.

The theory and application of piezo-electricity to the phenomena of explosions, pressure variations in engines and specific heats of gases.

Spectroscopy.

Geophysics.

ASSOCIATE PROFESSOR H. E. REILLEY.

The acoustics of auditoriums, churches and offices, and the determination of acoustic properties of building materials.

PROFESSOR J. S. FOSTER.

The Stark-effect.

The Zeeman-effect.

Spectroscopy.

DR. A. V. DOUGLAS.

The investigation of stellar spectra.

Variable stars.

Spectroscopic binaries.

Absolute magnitudes.

DR. W. H. BARNES.

X-ray analysis.

#### DEPARTMENT OF PHYSIOLOGY

PROFESSOR OF PHYSIOLOGY:—JOHN TAIT.

RESEARCH PROFESSOR:—B. P. BABKIN.

ASSISTANT PROFESSOR:—N. GIBLIN.

LECTURER:—S. DWORKIN.

#### COURSES FOR THE DEGREE OF MASTER OF SCIENCE

**A. Lectures on Autonomic Nervous System.**

Professor Babkin.

**B. Lectures on Selected Advanced Topics...** Professor Giblin.

**C. Lectures on Structure and Function.....** Professor Tait.

**D. Advanced Laboratory.**

**E. Physiological Colloquium.**



## REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

The advanced courses in physiology have been designed with two things in view: (1) to provide higher training for graduates who look forward to an exclusive academic career either in physiology or in some cognate branch of biological or medical science; (2) to offer increased facilities of study to the younger clinicians of the school. The work is arranged to meet the individual needs of each student.

## DEPARTMENT OF PSYCHOLOGY

PROFESSOR:—WILLIAM D. TAIT.

ASSOCIATE PROFESSOR:—CHESTER E. KELLOGG.

The Psychological Laboratory is adequately equipped with apparatus for original investigation in all branches of human psychology, including abnormal and applied. The research rooms are provided with gas, compressed air, 110-volt D.C. current, 6 and 8-volt battery circuit from storage batteries and electrical inter-room connections. There is a workshop, sound-proof room, and photographic dark room.

The Library is well supplied with nearly all the leading English, German, French and Italian periodicals, monographs, and other special publications in addition to the standard works in each language.

## COURSES FOR M.A. AND PH.D.

- A. **Psychological Laboratory.** Experimental investigations in human psychology under the immediate direction of members of the Department. Laboratory conferences are held monthly, at which students receive constructive criticism in their work.

Professors Tait and Kellogg.

- B. **Seminar in Feelings and Emotions.** History of the problem, physiological correlates, methods of investigation and results, measurement, theories, etc.

Professor Tait.

- C. **Seminar in Systematic Psychology.** Topics in the history of modern psychology; leading systems of the present time; quantitative methods in recent experimental research.

Professor Kellogg.



**D. Abnormal Psychology.** Relation between normal and abnormal mental life, disorders of the senses and higher processes, disturbances of personality, conflict, dissociation, etc.

**E. Advanced Psychology.** The psychology of William James.  
Professor Tait.

**F. Advanced Statistical Methods.** Theory of classification and association; probability and sampling; the normal curve; skew frequency curves—systems of Pearson and the Scandinavian school; general theory of correlation—frequency surfaces and regression; correlation by special methods; reliability; partial and multiple correlation; contingency, the Chi-square test, etc.  
*Prerequisites:*—Mathematics 1B and either 2 or 3.

Professor Kellogg.

**G. Theory of Mental Measurements.** The psycho-physical methods; measurement of intelligence; the Spearman factor theory; theory and measurement of character.

*Prerequisite:*—Course 10.

Professor Kellogg.

**H. Theory of Aptitude and Achievement Tests.** History of aptitude tests and standard educational tests; construction and use of standard tests; critical study of tests—validity and reliability; special aptitudes—theory and measurement; detailed study of clerical and mechanical aptitudes; technique of aptitude test construction and standardization.

*Prerequisites:*—Courses 10 and 11, or Course 12.

Professor Kellogg.

**I. Experimental Education.**

By arrangement.

**J. Psychology of Adolescence and Secondary Education.** History of secondary education; adolescence—physique, hygiene, emotional and intellectual development, special interests; character types and intelligence levels; educational and vocational guidance; organization and curricula of secondary schools; psychology of special subjects; supervision of study; accessory activities and administrative problems.

*Prerequisites:*—Course 9, or Courses 10 and 11.

Professor Kellogg

**K. Advanced Psychotechnics.**

By arrangement.

For other courses open to graduate students, see page 216.



## NOTES REGARDING THE ABOVE COURSES

1. Admission to graduate study is limited to students who have taken honours in Psychology for their B.A. degree or its equivalent. The term "equivalent" is used in a restricted sense, and no student coming from any other university is admitted to study for an advanced degree unless his training has been of a kind amply to equip him to undertake it.
2. The first year of graduate work consists of 12 hours per week, at least, of regular work, including lecture courses, seminar and research work, and, with a satisfactory thesis this year, qualifies for the Master's degree.
3. The second year consists of an equal number of hours of work, but more time is devoted to research; for example, one seminar, one lecture course, and the remainder of the time to research, or two seminars and the remainder of the time to research would be required this year.
4. In the third year at least eight hours are given to research and the remainder to seminars and lectures.
5. In addition to his regular work in the Department, the student has to prepare a thesis of adequate standard based upon personal investigation and research.
6. All students are required to have a knowledge of advanced statistical methods such as correlation, partial correlation, regression equations and methods of testing the reliability of psychological measurements.
7. Candidates are required to possess an adequate knowledge of the main principles of Physics, Chemistry and Physiology, so far as these subjects are cognate to scientific Psychology.
8. A certain amount of ability in shopwork, enough at least to show that the candidate is capable of designing and constructing simple apparatus, is required.
9. The preliminary examination for Ph.D. includes the history of philosophy, logic, principles of psychology, experimental and physiological psychology, statistical methods, contemporary psychology.
10. At the thesis examination the candidate is expected to show an accurate knowledge of the whole field in addition to his special field.



## DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR:—R. DU ROURE.

ASSOCIATE PROFESSOR:—LOUIS D'HAUTESERVE.

ASSISTANT PROFESSOR:—LUCIE TOUREN FURNESS.

## COURSES FOR THE DEGREE OF MASTER OF ARTS

A. **Comparative Literature** (Department of English, Course 16).  
Three hours.....Professor Noad.

B. **Methodologie.**  
One hour.....Professor du Roure.

C. **Quelques romanciers contemporains.**  
One hour.....Professor Furness.

D. **Exercices pratiques** (Colloquia).  
One hour.

\*E. **Histoire du roman en France.**  
Three hours. (Given in 1932-33.).....Professor du Roure.

\*F. **Histoire de la langue française.**  
One hour. (Given in 1933-34.).....Professor d'Hauteserve.

\*G. **Histoire de la poésie lyrique en France.**  
Three hours. (Given in 1931-32.).....Professor du Roure.

Candidates for the Master's degree in French only will take courses A to D inclusive, and also one of E, F, G.

Those taking French as a major will omit A and either B or C.

Those taking French as a minor will take D and one of the one-hour courses.

The M.A. thesis must be written in French.

Students from other Provinces and States where the opportunities of speaking French are small cannot normally obtain an M.A. in less than two years.

## THE SUMMER SESSION COURSES

A student taking one session of the advanced course in the French Summer School is exempted from the corresponding number of hours for the M.A. degree.

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\* These are also Honour courses in the Faculty of Arts and Science.



A student taking two sessions of the advanced course is exempted from half of the regular session.

A student taking four sessions of the French Summer School advanced course is exempted from attendance during the regular session and will receive the M.A. degree on presenting an acceptable thesis in French under the direction of the Department.

#### DEPARTMENT OF SOCIOLOGY

PROFESSOR:—CARL ADDINGTON DAWSON.

ASSISTANT PROFESSOR:—EVERETT CHERRINGTON HUGHES.

Facilities consist of:—

(1) *Seminar room*, with facilities for mapping and charting of social data. Basic population and other social data already collected are accumulating rapidly. All such data remain available to students.

(2) *Library*.—Graduate students are allowed special privileges in the University Library. This library contains (a) the standard works on social theory, social institutions and cultural anthropology and (b) census reports, special monographic studies and other material necessary to research. Additional sources of material are the other libraries of Montreal, especially those of the French and the archives of the city, which contain original data. Through the courtesy of various government departments, certain original data and records in Ottawa are available to graduate students.

(3) *Research*. (a) National problems.—Where the data are a matter of record, Montreal has an advantage by virtue of its position as the headquarters of many national organizations as well as by its proximity to Ottawa. (b) The city of Montreal.—In social research the first requisite is a community in which social processes can be seen and studied at first hand. Montreal, a large and complex city, furnishes an array of research problems unequalled elsewhere in Canada. The Department of Sociology has undertaken an organized programme of urban research under competent direction. The student has, therefore, the double advantage of a wide range of problems and of contributing to an accumulative scheme of research.

#### COURSES FOR THE DEGREE OF MASTER OF ARTS

##### \*A. The Community.

Tues., Th., Sat., at 9.....Professor Dawson.



**\*B. Social Origins.**

The culture and social organization of primitive or pre-literate peoples, including anthropological data on:—Marriage and kinship; property and the division of labour; magic, religion and science; taboos, customs and morals; myth, folklore and legend; art, ornament and decoration; war, slavery, punishment and the state; the mind of primitive man; the processes of invention and diffusion in the origin and development of culture.

(Given in 1932-33.).....Professor Hughes.

**\*C. Social Movements.**

The natural history of typical social movements, such as revivals, migrations, revolutions, reform and political movements; classification of such movements; the "life-cycle" of a social movement; social movements in relation to social change.

(Given in 1932-33.).....Professor Hughes.

**\*D. Culture Areas in Canada.**

The application of anthropological and sociological methods to the study of culture areas in Canada. These areas are separated from each other by the main physiographic regional divisions. Each region breaks up into the older areas of settlement and pioneer belts. The basic structure and related social and cultural organization of each area are studied. A comparison of the main culture traits and their diffusion in each area. Research projects to discover the indices of culture organization and social change in the various areas. The conflict of British, American and Canadian culture patterns in Canada.

Mon., Wed., Fri., at 12.....Professor Dawson.

**E. Social Institutions.**

The institution as a unit of social structure and as a bearer of culture; the processes by which institutions arise, develop and die; the life-cycle of such institutions as the sects, the church, the school, the newspaper, etc.; crises and the reorganization of institutions.

Hours to be arranged.....Professor Hughes.

**F. Social Attitudes and Personality.**

Social situations and the development of social attitudes; the process of social conditions in relation to personal organiza-

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NOTE.—The starred courses are also Honour Courses in the Faculty of Arts and Science. Each graduate student who takes this course is required to undertake an original project in addition to the undergraduate requirement.



tion; social types; problems dealing with the social adjustments of persons. An extensive use of descriptive material, biographical and autobiographical documents.

(Given in 1932-33.).....Professor Dawson.

**G. Graduate Seminar: Research Problems and Methods.**

The work of each student is related to theory and problems in the special field of his dissertation.

Hours to be arranged.....Professors Dawson and Hughes.

Written examination in each course of study and a general theory examination are required of each candidate.

**DEPARTMENT OF THEOLOGICAL STUDIES**

PROFESSOR OF JEWISH HELLENISTIC LITERATURE, MCGILL UNIVERSITY:—  
GEORGE ABBOTT-SMITH.

PROFESSOR OF CHURCH HISTORY AND PHILOSOPHY OF RELIGION,  
CO-OPERATING THEOLOGICAL COLLEGES:—O. W. HOWARD.

PROFESSOR OF CHURCH HISTORY, CO-OPERATING THEOLOGICAL COLLEGES:—  
WILLIAM A. GIFFORD.

PROFESSOR OF HEBREW, MCGILL UNIVERSITY:— \_\_\_\_\_.

PROFESSOR OF NEW TESTAMENT LANGUAGE AND LITERATURE,  
CO-OPERATING THEOLOGICAL COLLEGES:—JAMES SMYTH.

A selection from the following courses may be taken as fulfilling the requirements of a minor subject for the degree of Master of Arts.

**OLD TESTAMENT**

- A. Introduction—Canon, Text and Introduction to the Historical Books.** Exegesis—Selections from the Historical Books or Prophetical Books.  
Three hours a week throughout the year....\_\_\_\_\_.

**NEW TESTAMENT**

- B. Introduction.** Course in three parts.  
(1) History of New Testament times.  
(2) Canon and Text.  
(3) The Language of the New Testament.  
Three hours a week throughout the year.  
Professor Abbott-Smith.
- C. Introduction to the Acts and Pauline Epistles; and Exegesis (Greek) of the Epistles to the Galatians and Ephesians.**  
Three hours a week throughout the year....Principal Smyth.



- D. Introduction to the Catholic Epistles; and Exegesis (Greek) of the Epistles of St. James, First St. Peter, and First St. John.  
Three hours a week throughout the year.....Principal Smyth.
- E. The Rise and Progress of Protestant Christianity in Europe until the close of the 16th Century.  
Two lectures a week with weekly colloquium...Prof. Gifford.
- F. History of the Christian Church in the First Six Centuries.  
Two lectures a week with weekly colloquium..Prof. Howard.
- G. History and Comparative Study of Religions—chiefly Hindu, Buddhist, Zoroastrian and Mohammedan (Islam).  
Two hours a week for two terms.....Professor Gifford.

## DEPARTMENT OF ZOOLOGY

PROFESSOR:—ARTHUR WILLEY.

ASSISTANT PROFESSOR:—N. J. BERRILL.

ASSISTANT PROFESSOR:—V. C. WYNNE-EDWARDS.

LECTURERS:— $\left\{ \begin{array}{l} \text{JEAN T. HENDERSON.} \\ \text{K. TERROUX.} \end{array} \right.$ 

All equipment necessary for courses mentioned below; microscopes, microtomes, reagents and glass ware and material supplied. The Blacker Library of Zoology is very complete.

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND  
DOCTOR OF PHILOSOPHY**\*A. Comparative Anatomy of Invertebrata.**

A survey of organization, biology, and affinities of each of the principal groups of invertebrate animals; examination and dissection of representative animals; mode of life and response to environmental stimuli.

Two lectures a week and four hours laboratory throughout the session.....Mr. Wynne-Edwards.

**\*B. Biological Colloquium.****\*C. Zoology of Vertebrata.**

Comparative anatomy of vertebrates with dissection of leading types in each of the classes, and their general biology.

Two lectures a week and three hours laboratory throughout the session.....Professor Willey.

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\* This is also an Honour course in the Faculty of Arts and Science.



**\*D. Comparative Embryology.**

Comparative study of the development of the principal types of invertebrates and vertebrates; survey of recent work in experimental embryology, regeneration, transplantation and tissue-culture.

Two lectures a week and two hours laboratory in the second term ..... Professor Berrill.

**E. Experimental Zoology.**

Studies in comparative physiology of animals; animal behaviour and adaptation.

Two lectures a week and two hours laboratory in the second term.....Professor Berrill and Mr. Wynne-Edwards.

**F. Marine Biology.**

Physical chemistry of sea-water; methods used in oceanographical research; physical and chemical analyses of sea-water; maintenance and study of marine aquaria; relation of animal life to variable factors of sea-water fishery problems. Two lectures a week and two hours laboratory in the second term .....Professor Berrill.

**\*G. Animal Ecology.**

One and a half hours a week throughout the session.

Dr. Carpenter.

Prerequisites for graduate courses are Zoology 1 and Zoology 2 or 4.

The candidate must pass an examination in each subject of his course except the Biological Colloquium. Oral examinations are held at the discretion of the examiners.

Candidates for the Ph.D. in Zoology are required to take at least one summer course at Wood's Hole or other marine station.

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\* These are also Honour courses in the Faculty of Arts and Science.



## SCHOOL OF PHYSICAL EDUCATION

### GENERAL INFORMATION

#### History and Aims.

The McGill School of Physical Education, which was established in 1912, has grown from a short summer course to a full two years' course and is now officially recognized by, and is an integral part of, McGill University.

It is the only School of Physical Education in Canada with a full two years' course connected with a University, and it has, since its inception, been fulfilling its purpose to provide Canada with a training centre for teachers of physical education, with marked success.

The modern conception of education is one which includes the individual as a unit and which strives to link all subjects in an organic whole. The physical education of to-day contributes to general complete education by means of motor activities which develop desirable standards of conduct, wholesome attitudes, sound habits of thinking, and efficiency of the human machine.

#### The Field.

The field for trained teachers in physical education is rapidly widening in scope; to include such organizations as the following:—Public and Private Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlements; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc.

#### Qualifications.

Scholastic; Matriculation (see page 85.)

It is highly desirable for any student anticipating entrance into this course to take either Chemistry, Physics or Biology in their preparatory work.

Motor Training: A natural aptitude for, and previous training in physical activities, together with a sense of rhythm, is essential.

Personal: The programme of physical education places a rare opportunity in the hands of the instructor, and thus necessitates a forceful personality, guided by high ideals and aspirations, an understanding of people and an ability to organize and control group activities.

#### Courses Offered.

A two-year course, from September to May, inclusive, is given in the theory and practice of physical education. This course is required



for the Diploma of the School, and includes an analysis of the underlying principles of general education, educational psychology, the physical organism as a functioning unit, and a study of the possible contribution of physical education to the problems of modern civilization. Opportunity for practice teaching under staff supervision is provided before graduation.

Partial students may be admitted for the study of special subjects. Special arrangements are made for admission to the course on Playground Problems.

#### Facilities.

The work is carried on in the University buildings, the laboratories and museums being at the disposal of the students.

The University Library is available for use by the students, as are the University Hockey Rinks, Tennis Courts and the Percival Molson Memorial Stadium.

A special library of selected works and the leading magazines on physical education is available for use by the students.

Through the kindness of the Protestant Board of School Commissioners, the Day Nursery and the Ladies' Benevolent Society, exceptional facilities are afforded for practice teaching and observation.

The Montreal Health Clinics, under the Child Welfare Association, offer an opportunity for practice in a preventive posture programme.

#### Residence.

The completion of the new wing of the Royal Victoria College will make it possible for a number of the students of the School of Physical Education to be housed in that building. First year students, whose homes are not in Montreal, are expected to live in this building and reservation should be made well in advance. Those who do not so apply are required to submit their plans for residence to the Director of the Department of Physical Education for approval. No sanction can be given to establishments of students in apartments, or elsewhere, unless such households are presided over by a parent or other responsible person approved by the University.

No room is assigned for a shorter period than the University session. Students who are requested to withdraw from the University are also required to withdraw from residence.

The charge for board and residence, in addition to the sessional fee for tuition, is \$520.00 (\$200.00 for room, \$320.00 for board) for the session. This may be paid in two equal instalments of \$260.00 in October



and February. Room rent includes all expenses of heat and light (not other electrical attachments, for which fees are charged). These charges cover the University session from the day before the last day of registration (September 12th) until the day after Convocation for students of the second year and until the Monday after the session closes for first year students.

A deposit of \$10.00 is required when a room is reserved and is deducted from the charges of the first term.

### **Costume for Women Students.**

The regulation costumes of the School must be worn, and students will not be permitted to wear other than the regulation garments. Measurement blanks will be furnished upon registration and students will be advised where the costumes can be secured. A list of articles required, with approximate cost, will be sent to students on application.

### **Text-Books.**

Students will be required to purchase text-books, as the University Library exists for supplementary reading only.

### **Student Organization.**

All undergraduates are members of the McGill Women Students' Society (the official Undergraduate Society for Women).

An Undergraduate Association is also organized by the School of Physical Education, which handles all activities within this group.

### **Girl Guides.**

The 1st Montreal Cadet Ranger Company under the auspices of the School is open to those who wish to have training as Girl Guide Leaders.

### **Alumnæ Association.**

There is a very active association of the graduates of the School which meets regularly for mutual benefit. It is the endeavour of the School to keep closely in touch with its graduates, to locate them in positions for which they are best suited, to advise upon particular problems, and to furnish them from time to time with new ideals and inspiration for the profession in which they are engaged.



### ENTRANCE REQUIREMENTS

1. Students are required to have passed the Matriculation Examination, as follows:—

1. English (two papers).
2. History (one paper).
3. Elementary Mathematics [Algebra (one paper) and Geometry (one paper)].
4. One of the following:—  
Physics, Chemistry, Botany, Zoology (one paper).
5. One of the following:—  
Latin, French, Greek, German, Spanish (two papers).

For requirements in each subject and other information regarding the examination, see page 85.

A candidate who has qualified for admission to the Faculty of Arts and Science will also be accepted for the School of Physical Education.

Students holding the Degree of B.A. or B.Sc. are eligible for advanced standing, provided the undergraduate work included such courses as Education, Psychology and Science. A complete statement of the courses covered, together with the practical experience of the student, must accompany all such applications. Students entering with advanced standing will be expected to have had broad experience in motor activities.

#### Health Examination.

In order to safeguard the health of the student, every candidate on entering the School is required to pass a satisfactory health examination before proceeding with the course. In order to be sure of the applicant's fitness to undertake the course, students are required to submit a medical certificate before registration. (See application form.)

#### Vaccination.

All students entering the University for the first time are required to present a certificate of successful vaccination within the past seven years, or of insusceptibility to vaccine within the past five years, failing which they must at once be vaccinated in a manner satisfactory to the authorities. Vaccination certificate must accompany the application form



### Health.

Provision is made by the University for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only at Public Ward rate, and for this time only when requisitioned for by the Department. The University is not responsible for any accidents occurring during the course. A leaflet concerning this service and the general work of the Department will be distributed at the opening of the session.

### Admission.

Only women students are admitted to the regular courses in the School. They will not be admitted if they are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is advisable and applicants must have had some practical experience in physical work before registration. Registration for the Session 1931-32 is limited to fifty (50) students and priority will be given to applicants who do not have conditions.

A photograph and two references, one from a former teacher, must be submitted. Neither reference should be from a relative.

Partial students, both men and women, are admitted to special courses at the discretion of the Committee, and the work done counts toward the Diploma of the School.

### Regulations.

1. All students enter the School on an indeterminate probation. Students who are considered unsuitable for the profession are advised to discontinue.
2. A student may at the discretion of the Committee be requested to withdraw at any time for reasons of unsatisfactory work or conduct.
3. Except in the case of illness or emergency, students must not absent themselves without previous permission, and students persistently late or absent will not be allowed to sit for the examinations.
4. A student who, through illness or accident, is absent for a large proportion of the work is advised to discontinue or to take the course in three years.
5. No student is permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.



## FEES AND REGISTRATION

## I. FEES

Sessional fee ..... \$150.00  
 By instalments—

First instalment, if paid before or on October 16th..... 77.00

Second instalment, if paid before or on February 1st..... 77.00

NOTE.—The deposit fee of \$10.00 for Residence accommodation made at the time of acceptance of application will be deducted from the charges for the first term.

Students are also required to pay a fee of \$2.50 which entitles them to membership in the McGill Women Students' Society and subsidiary societies, and \$1.50 for the McGill Daily.

In addition, there is a fee of \$7.00 for athletics and athletic grounds, for the skating rinks and tennis courts during the Session and for admission to the home games under the control of the Athletic Board.

**Fees for Partial Students:** \$4.00 for library, \$3.00 for athletics and athletic grounds and a fee at the rate of \$9.00 for an hour a week of instruction during the academic year, but the maximum fee may in no case exceed the full undergraduate fee.

Partial students may, if they so desire, secure the privilege of the skating rinks and tennis courts during the session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of \$3.00.

**Fees for Supplemental Examinations.**

Supplemental examination in any subject (theory and practice) \$ 5.00

Special supplemental examination in any subject (theory and practice) ..... 10.00

**Caution Money.** Every student is required to deposit with the Bursar the sum of \$5.00 as caution money, to cover damages done to furniture, apparatus, books, locker keys, etc. This amount, less deductions (if any), will be returned at the close of the session.

## II. REGISTRATION

Students (both former and entering) register between September 14th and September 15th, and the opening lecture will be given on Thursday, September 17th.

A fine of \$5.00 for the first week and of \$10.00 for the second week is exacted for late registration.

Application forms should be returned not later than September 12th, 1931.



## EXAMINATIONS AND PRIZES

### Diplomas.

Examinations are conducted in all subjects and diplomas are granted to successful students at the end of the session. Strathcona Certificates issued through the Strathcona Trust are granted to students at the end of the First Year.

Fifty per cent is required for a pass, 60 per cent for second class, 75 per cent for first class.

The Educational Diploma is recognized by the Protestant Committee of the Department of Education, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying students who are British subjects for the salary of Specialist in the Public Schools.

Students failing in their sessional examination may, at the discretion of the Committee, take supplemental or special examinations.

All students of the Second Year are required to do a certain amount of practice teaching and athletic officiating. Credit is given for this work.

### Prizes.

1. SENIOR YEAR GOLD MEDAL.—The School offers a prize of a gold medal to the student of the graduating year who attains the highest general proficiency throughout the course.

2. LIEUTENANT-GOVERNOR'S SILVER MEDAL.—This medal is awarded to the student of the Senior Year who attains the second highest general proficiency throughout the course.

3. A Cup, presented by the Class of 1916, is held for one year by the student of the Senior Year gaining the highest standing in practical work.

4. A Shield, presented by the Class of 1925, is awarded to the student attaining highest standing in practice teaching throughout the course and is held for one year by the student.

5. JUNIOR YEAR PRIZE.—The School offers a prize to the student of the Junior Year who attains the highest general proficiency in the sessional examinations.

6. LIEUTENANT-GOVERNOR'S BRONZE MEDAL.—This medal is awarded to the student of the Junior Year who attains the second highest general proficiency in the sessional examinations.

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NOTE.—No student is entitled to more than one prize in any one year, and must have full standing in the year the prize is given.



## COURSES OF INSTRUCTION

JUNIORS		SENIORS	
	Hours		Hours
English .....	2	Physiology of Exercise.....	1
Physics .....	1	Individual Gymnastics and	
Chemistry .....	2	Massage .....	1½
General Anatomy and Physi-		Preventive Medicine .....	2
ology .....	3	Kinesiology and Applied	
Physical Diagnosis .....	½	Anatomy .....	½
Educational Psychology ....	1	Principles of Education....	1
History, Education and Phy-		Organization and Adminis-	
sical Education .....	1	tration .....	1
First Aid .....	½	Theory of Physical Educa-	
Playground Problems .....	1	tion .....	2
Gymnastics .....	4	Child Welfare .....	½
Games and Athletics.....	3	Gymnastics .....	4
Dancing .....	3	Games and Athletics.....	2
Aquatics .....	1	Dancing .....	2
Teaching, Observation and		Aquatics .....	1
Practice Teaching .....	1	Practice Teaching .....	2
	24		20½

The hours as stated indicate hours per week for the session of thirty weeks.

## THEORY

## JUNIORS

## English Literature

General course from Anglo-Saxon times to the present day. Weekly conference hours to be arranged.—Professor Macmillan and Assistants.

Tuesday, Thursday, 12; sometimes Saturday, 12.

## Physics

This course is adapted to problems in physical education, so as to give the students an understanding of the practical application of physical laws and principles bearing upon their work.

*Mechanics* (force, work, power, energy, mechanical advantage); *properties of matter* (density, elasticity, cohesion, adhesion, capillarity, surface tension, osmosis, gas laws); *heat* (temperature, specific and latent heat, modes of transfer, effects, humidity); *light* (undulatory



theory of electromagnetic waves, source within the atom, laws of reflection, refraction, images with mirrors and lens, photometry); *magnetism* (methods of magnetization, lines of force, poles, law of force, compass); *electricity* (properties of positive and negative charges, electroscope, friction machines, currents, cells, electrolysis, magnetic effects, induction dynamo motor, Ohm's law, therapeutic uses of electricity).

Dr. Douglas, Professor Reilley.

1st Term, Wed. 9, Fri. 11.

### Chemistry

#### Chemistry 16—

This course includes the fundamental principles of general chemistry. It is divided into three sections: Inorganic, Organic and the connection between these and the Chemistry of Daily Life.

The first section is a general study of the elements and their most important compounds, together with the laws governing their behaviour.

The second includes a general knowledge of the more important classes of organic substances.

The third treats of substances from the above classifications in their relation to respiration, disinfection, etc., with considerable emphasis on the Chemistry of Foods, their sources, preparation, adulteration, digestion and value.

Throughout the course stress is laid on all those principles relating to health which can be explained by known chemical reactions.

Dr. Hatcher.

1st and 2nd terms, 2 hours.

### General Anatomy and Physiology

The purpose of this course is to give the student a clear conception of the human body as a *living mechanism* in which the functions and structure are inseparably related, and in which the activities of all parts are intimately co-ordinated. As far as possible, therefore, the anatomy and physiology of the various organs and systems are considered together.

After an introductory study of the structure of the body as a whole, the great vital phenomena which distinguish all living organisms are considered and a detailed analysis made of the way in which they are exemplified in man.

In this way the various processes which go to make up the life cycle are taken up; the processes of ingestion, digestion, absorption, assimilation, catabolism, respiration, excretion, irritability and conductivity, movement and reproduction—and the structure of the organs concerned in these functions studied.

Dr. Lamb.

1st and 2nd Terms, Mon., Wed., Fri 9.



### Physical Diagnosis

Lectures and practical demonstrations in the methods of examination for defects of posture and development, especially of the spine and thorax; description of deformities due to disease; examination by inspection palpation, percussion and auscultation; tests for sight, hearing, nasal obstruction; examination for dental defects.

Students are taught the early recognition of contagious disease, the more common defects and when to seek expert advice. Practice in methods of examination is carried on under supervision in the Senior Year.

The course includes a study of human measurements, with reference to signs, body proportions, state of development and function of the body; the effects of age, sex, occupation, race and environment on development; adaptability to various forms of exercise and occupation; demonstrations of the use of various anthropometric instruments.

The application of this material is made to educational institutions, including such follow-up procedures as: the hygiene of instruction, conservation of sight classes, fresh air rooms, school clinics, etc.

Dr. Harvey, Miss Herriott.

2nd Term, Wed. 3.

### Educational Psychology

A brief outline of general psychology, with special reference to the relation between mind and body and the most important principles of educational psychology, including a study of original nature, the laws of learning, transfer of training, etc.

Dr. Tait.

2nd Term, Mon. and Wed. 11.

### History of Education and Physical Education

This course traces the development of physical education through the different periods of world history. Attention is given to the characteristics of the people and to the ideals and customs of time and place as determining factors in the development of general education and of physical education.

Miss Herriott.

2nd Term, Thurs. and Sat. 9.

### First-Aid

The endeavour in this course is to give the student a thorough practical knowledge of the correct action to take in cases of emergency.



The treatment of burns, scalds, sprains, dislocations, fractures, shock, hemorrhage, poisoning, etc., also the various kinds and uses of bandages, splints, antiseptics, etc., are carefully considered.

Successful students qualify for the certificate of the St. John Ambulance Association.

Dr. Tees.

2nd Term, Fri. 11.

### Playground Problems

This course will relate the psychological principles to the actual activities of child life and the types of activity best suited for children of varying ages and development; theories of play, etc.

The various playground activities; individual, group and mass athletics, dancing, games, singing, pageants, festivals, story-telling, handicraft, as well as layout and equipment, will be specially considered.

Actual practical work and visits to grounds form part of the course.

Dr. Lamb, Mr. Bowie, Mrs. A. E. Coleman, Miss R. Parke.

1st Term, Tues., Thurs. 10.

## SENIORS

### Physiology of Exercise

The object of the course is to study by lectures and practical demonstration the effects of exercise on the neuro-muscular system, metabolism, respiration, circulation, etc. The work in this course will supplement and apply the problems studied in physiology to the working power of the human machine.

Dr. Lamb.

2nd Term, Wed., Fri. 10.

### Principles of Physical Education

This course includes a study of the contributions of psychology, biology and physiology to physical education, an analysis of the aims and objectives of physical education in relation to general education, standards for evaluating physical education activities and the underlying principles of curriculum construction. A section of the course is devoted to the modern programme of health education. Readings, term papers and the construction of a curriculum are required.

Miss Herriott. 1st and 2nd Terms, 2 hours per week, entire session.



### Individual Gymnastics and Massage

General consideration of movements used for remedial treatment; actual practice in class work.

A consideration of the theory and effects of massage taken in broad outline to give the students a knowledge of its general usage and benefits. Practice in technique of massage manipulation with application to minor disabilities.

Mrs. McKean.

1st Term, Tues., Thurs., Sat. 9.

### Preventive Medicine

The study of Preventive Medicine is taken up under the following heads:—

#### (a) *Bacteriology and Serology.*

Lectures and demonstrations are given in the study of the more common pathogenic organisms and communicable diseases. Their relation to health is considered in air, water, food, clothing, skin, hair, mouth, etc. Precautions against and means of combating pathogenic organisms are studied in, e.g., sterilization, disinfection, pasteurization, vaccination, immunization and general prophylaxis.

#### (b) *Personal Hygiene.*

A consideration of the philosophy of health, the social responsibility of the individual, the principles of mental hygiene, and the laws of healthful living in relation to the individual and the environment.

#### (c) *Public and School Hygiene.*

Health organizations and the means for the maintenance of health; occupational diseases and the effect of various occupations on health, sanitation, light, heating, ventilation, water supply and drainage, school-room inspection, etc.

Miss Herriott, Dr. Starkey.

1st and 2nd Terms, Tues., Thurs. 11.

### Kinesiology and Applied Anatomy

This course consists of a general review, by means of lectures and demonstrations, of the mechanics of movement of the human machine, also of the classification and analysis of exercise, joint-movements and the action of muscle groups in producing motion.

Dr. Harvey.

2nd Term, Mon. 11.



### Principles of Education

This course includes a study of the underlying principles of general education, including concomitant learnings, the project method, the doctrine of interest, coercion in learning, etc. Application is made to the field of physical education.

Miss Herriott.

1st Term, Wed., Fri. 9.

### Organization and Administration

This course comprises a study of various problems in organization and administration, from arranging a simple schedule of competitive events to the organization and supervision of a Department of Physical Education.

Actual visits to study organizations of various types are made under supervision.

Dr. Lamb.

1st Term, Wed., Fri. 10.

### Child Welfare

A study of child life and the influences necessary to the normal development of the child, the treatment of dependent, neglected, delinquent and defective children; child-welfare legislation.

Professor Hughes.

1st Term, Tues. 12.

## ACTIVITY COURSES

### JUNIORS AND SENIORS

The practical courses are planned to enable the student to gain not only an adequate knowledge of the numerous activities in physical education, but also to attain a moderate degree of skill in each type and to be able intelligently to teach and direct motor activities.

The student is made thoroughly familiar with the broad underlying principles of practical work and is furnished with ideas and ideals, thereby facilitating the application to any conditions which may arise in the teacher's field of endeavour.

### Gymnastic Floor Work

SECTION I. Swedish and Danish gymnastics, with apparatus work.

SECTION II. Rhythmical gymnastics, including the use of hand apparatus—Indian clubs and wands.



SECTION III. Informal activities, such as game skills, stunts, tumbling, pyramid building, and self-testing activities.

SECTION IV. This period is devoted to lectures and discussion of the material in the activity sections.

Mr. Finlay, Miss Harvey, Miss Herriott, Miss Wain.

### Games and Athletics

SECTION I. The teaching organization and compiling of games of low organization suitable to various ages of childhood.

SECTION II. This course offers training in the fundamentals of games of high organization, such as basketball, baseball, tennis, field and ice hockey, archery, etc. An opportunity is offered to develop efficiency in coaching and officiating.

SECTION III. Track and Field activities are given in the Fall season during the first six weeks of the session.

Miss Harvey, Miss Slack, Mr. Van Wagner, Miss Wain.

### Dancing

SECTION I. Folk, National and Clog Dancing.

SECTION II. Character and Interpretative Dancing. Dances suitable for public and high school students, with necessary technique and original dance compositions by the students.

SECTION III. Natural Dancing. This material is a rhythmic expression of the native and fundamental activities, including child rhythms and plays, music interpretations and natural dances.

Miss Harvey, Miss Wain.

### Aquatics

This course includes methods of individual and class instruction of back, crawl, side, breast and trudgeon strokes; diving, life saving; methods of release, rescue, resuscitation; water polo; aquatic meets, etc.

Miss Wain.



## Practice Teaching

### JUNIOR YEAR

During the first half of the second term, opportunities are provided for observation of teaching.

During the second half of the second term, practice teaching under staff supervision is required at the Montreal Day Nursery and Ladies' Benevolent Society.

### SENIOR YEAR

From October to March practice teaching under staff supervision is required at the Montreal Day Nursery and Ladies' Benevolent Society.

During March and April, the opportunity is provided for practice teaching in the public schools of the city.

In addition to the above, each senior student is provided with a class outside of the University for which she assumes the full responsibility.



## SCHOOL FOR GRADUATE NURSES

### FOUNDATION AND HISTORY

The School for Graduate Nurses was established in 1920 under the direction of Miss Flora Madeline Shaw to provide for the preparation of public health nurses for the community, and administrators and teachers for schools of nursing. The foundation of the School was made possible by the generosity of the Quebec Provincial Red Cross Society, which agreed to finance the undertaking for three years. Dr. Helen R. Y. Reid, a member of the Corporation of the University, was chiefly instrumental in securing the interest and co-operation of both the University and the Red Cross Society. In October, 1924, the University, satisfied that the School had demonstrated its value to the community and the nursing profession, assumed responsibility for its maintenance.

During the session 1924-25 a new course of study—Supervision in Schools of Nursing—was offered. This was arranged in order to meet the needs of nurses not qualified to enter the course in Administration, but wishing to prepare for positions as supervisors or assistants in schools of nursing.

In 1927 the School suffered a very great loss in the death of its Director, Miss Shaw.

In 1928 the graduates of the School established in memory of Miss Shaw, the Flora Madeline Shaw Memorial Fund for the Advancement of Nursing Education. The Fund received the active and generous support of the graduates of the School, and also of individual nurses, of private citizens and of the Quebec Provincial Association of Graduate Nurses. In 1930 it was decided that the Memorial should take the form of the Flora Madeline Shaw Scholarship. The first scholarship of \$500 was offered in 1930-31 to Registered Nurses wishing to take a Graduate course at the School.

In 1929 the curriculum was reorganized in content and methods of instruction, to meet the growing professional needs of the students and in accordance with the University educational standards. Diploma courses covering a period of two academic years were offered in each of the major fields of nursing education. Courses of study were expanded and preparation for higher executive and teaching positions as supervisors, organizers and administrators in public health and welfare organizations was provided for by the establishment of a new major course in "Supervision and Organization in Public Health Nursing." A programme of health education was established in one of the affiliated undergraduate schools of nursing under the direction of a specially qualified health educator on the staff of the McGill School



for Graduate Nurses. Instruction in this important phase of nursing was arranged for all field workers, teachers, supervisors and administrators who would later be engaged in the education of nurses and the public in either institutions and schools of nursing or in the community at large. Increased emphasis was placed and provision made for the preparation of administrators, supervisors, clinical and classroom teachers, through directed observation, participation and responsible practice under supervision in the affiliated hospitals.

*Research in Nursing:*—An important development was the establishment of a fellowship providing for an intensive study of nursing in a selected ward in one of the affiliated hospital schools with a view to developing the clinical content of nursing and the best methods of clinical teaching in order to insure that the rich clinical experience of the student would be conducted on a sound educational basis. The study was developed under the direction of the School for Graduate Nurses and thus provided a model field for the study of nursing and the demonstration of clinical teaching.

Several additional members were added to the teaching staff of the School in order to develop the above programme.

The School continues to serve a national purpose. Students are enrolled from every province in the Dominion and Canadian nurses in the United States are returning to study at McGill. The enrolment shows a steady increase in numbers. Two hundred and seventeen students have graduated from the School and the majority of them are filling positions of leadership as directors, teachers, or supervisors in schools of nursing, or in public health nursing in the community.

Each year, in addition to the students taking full-time courses leading to a diploma or a certificate, increasing numbers of partial students have been registered. The School has thus served as a teaching centre where nurses on the staff of the local hospitals, the Victorian Order of Nurses, the Metropolitan Life Insurance Company and the Child Welfare Association have profited by the opportunities offered in the School, and in this way have been able to continue their professional education.

#### COMMUNITY AND PROFESSIONAL NEEDS IN NURSING

*Need for Graduate Schools of Nursing:*—The educational function of undergraduate schools of nursing is to give the basic course in nursing which will insure a sound foundation in the highest professional ideals, knowledge, and skill essential for general practice, and for further study in any of the various fields of nursing in which their graduates may desire to engage. Undergraduate schools prepare the general practitioner in the art of nursing, but do not prepare specialists.



They teach the art of nursing, but not that of teaching, supervision or administration, each of which, like nursing, is based on underlying sciences and has its own principles and technique. These must be studied in graduate schools of nursing.

It is also felt that at present the undergraduate school does not give its students that sound knowledge of the principles of health and prevention of disease which is a necessary foundation for all public health work.

The function of graduate schools of nursing, such as the McGill University School, is to prepare specialists in nursing, and qualified teachers, supervisors and administrators for schools of nursing and the fields of public health; to act as teaching centres for the continued education of those in active service in the community; to engage in research to advance the art of nursing, the professional content and methods of instruction, and to study and endeavour in every way to meet the national, community and professional needs.

*Need for Qualified Superintendents, Directors and Leaders:*—At all times, but particularly when a profession is passing through a critical, transitional period in its development, and when the conditions under which the professional group practices are rapidly changing, those who are shaping and directing the policies governing the education and practice of this group undoubtedly require a sound, broad education, both general and professional. In the nursing profession this need is becoming more and more acutely felt, and those with special graduate preparation are being increasingly sought for all teaching and executive positions.

The position of our superintendents is a very demanding one and much is expected of them. They are charged not only with the professional administration of the hospital nursing service, but with the educational administration of the school. This dual responsibility brings problems and corresponding opportunities which challenge our best informed and most able women. To conduct the hospital nursing service adequately, professional knowledge and skill, executive ability and other personal qualifications of a high order, together with experience and special training in administrative work, are required. To conduct the school in accordance with educational standards, it is becoming increasingly apparent that one needs, in addition, a sound general education, a knowledge of modern educational ideals and methods in the fields of general and professional education, a knowledge of present problems and trends in nursing education and practice, an understanding of changing social conditions and community health needs, and an understanding of the various fields of nursing in which the students will later be engaged and for which they should receive their basic preparation in the undergraduate school.



*Need for Qualified Teachers and Supervisors:*—There are two main divisions of the nursing curriculum, first those subjects, including the basic sciences, which are taught chiefly in formal classrooms; second, the principles and practice of nursing in its special branches, or services, which are learned chiefly through clinical instruction and experience in the hospital wards and clinics and in community health associations.

There is a steadily increasing demand for qualified classroom teachers which far exceeds the supply. With the growing appreciation of the importance of properly directed supervised experience in education, more attention is also being paid to clinical teaching, to planning and supervising this clinical experience, and the need of properly qualified clinical teachers (head nurses and supervisors) is being more and more emphasized.

Both types of teachers require not only a sound knowledge of the subject matter of the courses which they teach, but must also be trained in the art of teaching based upon the best modern educational philosophy, psychology, and principles and methods of teaching in general and higher education. The function of clinical teachers is, like that of the superintendent, a dual one, carrying with it both executive and teaching responsibilities differing chiefly in range of content, guidance and direction. Supervisors are often assistant superintendents and *vice versa*. For this reason the position of supervisor is a logical and necessary preparation for that of superintendent and director of a school. In the larger schools there is also a need for a "Supervisor of Instruction" who will assist the director in developing, co-ordinating and supervising the whole educational programme.

The number of teachers and supervisors or assistants required is naturally much greater than the number of superintendents and directors. Because of the intimate, first-hand contact and influence with students and patients, or because of interest and opportunity to study the subjects taught, or because of pleasure in the art of teaching itself, many women find in teaching their greatest satisfaction and an outlet for their highest capacities. The need in this field is constant and steadily growing and for some time to come the demand is likely to exceed the supply.

*Need for Public Health Field Workers, Supervisors and Administrators:*—Since the early years of this century a change has become apparent in the nature and scope of Visiting Nurse and District Nurse Associations. Gradually they have developed a much broader outlook, including in their programmes more and more educational work, teaching the prevention of disease and the upbuilding of positive health. It is to this larger conception of service that the term "Public Health Nursing" applies. To-day the Public Health Nurse is a well-known



figure and a valued field agent in all branches of Hygiene and Preventive Medicine.

A great deal of pioneer work had to be done to discover what principles and practice are most suitable, and to arrive at a satisfactory method of administering Public Health Nursing Services. Now, much of this work is well beyond the experimental stage and has been proved sound and essential to public welfare. Municipal and Provincial Departments of Health are assuming more and more fully the responsibility for carrying on these tested services within their areas. The organization of rural health units enlarges tremendously the scope of official health work.

Pioneering, however, is not all of the past. New discoveries open up new vistas, and untold possibilities await the further application of knowledge already available. In a general way, the task of trying the new, the task of field research, falls to the unofficial voluntary agencies. Important contributions have been made by the Victorian Order of Nurses, a dominion-wide Public Health Nursing organization, by the Canadian Red Cross and by the local agencies which have been established in all the larger centres at least. In Canada, where the country itself is still being opened up, rapid expansion and development are particularly marked.

Our chief need at this time is for more nurses who are prepared to carry on and develop this work, and when necessary to organize it in new centres.

We need nurses with the best possible educational and professional background. Undergraduate nursing education alone does not, and probably should never be expected to give the special knowledge and skill required for Public Health Nursing. It is to give a basic preparation, to develop specialists in the main branches of Public Health Nursing, and to prepare nurses for positions of supervision and administration in an adequate way that graduate courses have been developed in University Schools for Graduate Nurses.

#### AIMS OF THE SCHOOL

The courses offered in the School for Graduate Nurses are designed to prepare qualified nurses to act as instructors, supervisors, assistants, or superintendents and directors in schools of nursing and hospitals and in public health nursing. The hope and aim of the School is to send out teachers and leaders, who, whether by helping to improve the methods and raise the standards of nursing education in schools of nursing in Canada, or by improving the methods and raising the standards of preventive and remedial nursing and health education in the community, may alike serve as public health workers.



## EDUCATIONAL OPPORTUNITIES OFFERED BY THE SCHOOL

The McGill University School for Graduate Nurses offers unusual opportunities for the preparation of graduate nurses for positions of leadership in either schools of nursing or in health and welfare organizations in the community. Through the Faculty of Arts and Science, the Faculty of Medicine, including the Department of Public Health and Preventive Medicine, the Mental Hygiene Institute, the Nursery School, the School for Social Workers, the School of Physical Education, Macdonald College, and other departments, courses are available in all the academic subjects, in the basic biological, physical and social sciences, and in professional courses for the education of teachers. The School for Graduate Nurses provides advanced professional courses in nursing education specially adapted to prepare teachers, supervisors and administrators for schools of nursing and the fields of public health and welfare in the community.

The libraries of the University, the Faculty of Medicine, the School for Social Workers and other schools, together with the professional library of the School for Graduate Nurses, afford every facility for reading, study, and research.

The excellent teaching hospitals for both the Faculty of Medicine and the School for Graduate Nurses—the Royal Victoria Hospital, the Montreal General Hospital, the Alexandra Hospital (communicable diseases), the Shriners' Hospital for Crippled Children (orthopaedic children), the Children's Memorial Hospital, the Maternity Hospital of the Royal Victoria Hospital with its numerous clinics—and other hospitals in and about Montreal offer every facility for the study of the most modern and efficient nursing in all its branches and for observation and practice in teaching, in supervision, and in administration of hospitals and schools of nursing. The public health and welfare associations and clinics, both public and private—the Victorian Order of Nurses (an educational centre of this national organization), the Child Welfare Association, the industrial clinics, maternity clinics, the Mental Hygiene Institute, the social service departments of hospitals, the Family Welfare Association and other social agencies, the Municipal Health Department, the county health units—supply ample opportunities for study and field work—for visiting nursing, health teaching, supervision, organization and administration of public health and welfare work in the community.



## COURSES, CERTIFICATES AND DIPLOMAS

The educational programme of the School is carried on in the Faculty of Arts and Science, the Faculty of Medicine, including the Department of Public Health and Preventive Medicine, the School for Social Workers, the School of Physical Education, the Nursery School, hospital schools of nursing, public schools and other health and welfare organizations, public and private, and in the School for Graduate Nurses.

### COURSES FOR DEGREES

The University does not, at present, grant a professional degree in the School for Graduate Nurses. The proposal to establish such a degree is, however, now under consideration. The curriculum of the School and methods of instruction are nevertheless strictly in accordance with the best university standards.

Conditions governing registration for degrees for students in the School are stated under Entrance Requirements, page 568.

*Matriculated students may register as partial students in the Faculty of Arts and Science* and all regular Arts and Science courses passed may, with the approval of the Dean, be credited toward the Bachelor of Arts or Bachelor of Science degree. Applicants already holding a Bachelor's degree may register as partial students for courses leading to a Master's degree.

### COURSES FOR CERTIFICATES AND DIPLOMAS

The following courses representing five fields of major interest in nursing are offered by the School:—

- I. Teaching in Schools of Nursing.  
*Diploma:—Instruction in Schools of Nursing.*
- II. Supervision in Hospitals and Schools of Nursing.  
*Diploma:—Supervisor in Hospitals and Schools of Nursing.*
- III. Administration in Hospitals and Schools of Nursing.  
*Diploma:—Superintendent of Nursing and Director of School of Nursing.*
- IV. Visiting Nursing and Health Teaching.  
*Diploma:—Visiting Nurse and Health Teacher.*
- V. Supervision and Organization in Public Health Nursing.  
*Diploma:—Supervisor in Public Health Nursing.*



*Length of Courses:*—The courses of study which lead to one of the above graduate *diplomas* in nursing extend over two sessions of eight months each (exclusive of time spent in field work), and provide a thorough professional preparation for the field selected. The prescribed courses include approximately one session of general academic and professional courses in education, in McGill University or elsewhere in an approved college, and one session of professional nursing courses in the McGill School for Graduate Nurses.

The minimum period of residence for a certificate or diploma is one year.

A *certificate* in one of the above major fields may be granted upon the satisfactory completion of approved courses of study which extend over one session of eight months, exclusive of required field work.

*Part-time students:*—One or more courses may be taken on a part-time basis by graduate nurses actively engaged in service in schools of nursing, or in the field of public health nursing.



## ENTRANCE REQUIREMENTS

### (1) PROFESSIONAL REQUIREMENTS

1. All applicants must present evidence of the satisfactory completion of the basic professional course in nursing covering a period of at least two years in a school of nursing of approved standards, and connected with a hospital insuring adequate teaching and clinical experience. Applicants must also be registered when coming from a state or province where registration is in force and must be eligible for membership in the state, provincial and national nursing organizations.

2. Applicants for the courses in supervision in either schools of nursing or in public health organizations must present satisfactory evidence of ability to profit by these courses indicated by previous experience and demonstrated fitness for higher responsible executive and teaching positions.

3. Applicants for the courses in administration in either schools of nursing or in public health organizations must present evidence of having held satisfactorily, for at least two years subsequent to graduation, a position which has unmistakably demonstrated fitness for leadership and higher responsible executive work.

### (2) ACADEMIC REQUIREMENTS

#### (a) Students Who Have Qualified for Matriculation in Arts and Science

Students who have qualified for entrance to Arts and Science may be admitted to the School as candidates for a certificate or a graduate diploma in nursing and may register as partial students in the Faculty of Arts and Science, the courses taken, with the approval of the Dean, being later credited, if desired, toward a Bachelor of Arts or Bachelor of Science degree.

Regulations governing Junior and Senior Matriculation are stated in the announcement of the Faculty of Arts and Science.

Students who already hold a bachelor's degree from an approved institution may be admitted to the School as candidates for a certificate or a graduate diploma in nursing and may register as partial students in the Faculty of Graduate Studies and Research, the courses taken, with the approval of the Dean, being later credited, if desired, toward a Master's degree.

#### (b) Students Who Have Not Qualified for Matriculation in Arts and Science

The McGill School for Graduate Nurses exists because of the recognized need to provide a sound preparation for leaders, directors, and teachers for schools of nursing and community public health organ-



izations and to assist those already in service. There are many women of ability, fine character and personal qualifications who do not meet the usual university standards of admission, but who have already given valuable service and demonstrated their fitness for executive and teaching positions. They would be greatly assisted and undoubtedly would make much greater contributions if allowed to avail themselves of the enriched knowledge and experience which is so abundantly offered in a great University.

Such mature students of experience or demonstrated fitness, who cannot meet the matriculation requirements, may be admitted as partial students, and as candidates for a certificate or a graduate diploma in nursing in one of the major courses offered.

The minimum admission requirement for such students is the satisfactory completion of three years of high school work or its equivalent.

#### (c) Part-Time Students

It is highly desirable that all graduate nurses should continue their education while in active service. This may be done in the McGill School for Graduate Nurses.

### (3) PHYSICAL REQUIREMENTS

As the work demands continued and concentrated effort, students must be in good physical condition. With their applications, all new students must present a certificate of medical examination, and of successful vaccination within seven years, from their own physician, upon forms supplied by the School. This is in accordance with the present Provincial Regulations, which are strictly enforced.

### APPLICATION FOR ADMISSION

Candidates for admission to the School must make application on the prescribed form, if possible during the spring and early summer. For application blanks and further information, write to the Director, School for Graduate Nurses, McGill University.

### ADMISSION TO ADVANCED STANDING

A student of another university may, at the discretion of the Director of the School, be granted exemption from one or more courses, but may be required to undertake additional courses to obtain the certificate or diploma. Students claiming such exemptions in any course must submit a calendar of the university in which the course was taken and a certified record of their standing.



## REGISTRATION AND ATTENDANCE

### 1. REGISTRATION

Students in Public Health Nursing will register on September 1st for field work.

Other students will register on September 28th to 30th.

The opening lecture will be given on October 1st.

Students are required to consult the Director at the time of registration.

### 2. ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or inevitable accident, are dealt with only by the Deans of the Faculties in which the lectures are given or by the Director of the School.

Excuses for absences in excess of one-eighth will be entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations. Medical certificates covering absences must be presented at the Dean's office, or at the office of the School by the student immediately after her return to University work. Such certificates will be filed, and, if acceptable, the Dean or Director will give the student a statement certifying to the absences covered, which must be shown to all the professors concerned as promptly as possible.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases will be dealt with by the Dean of the Faculty or by the Director.

3. Lectures will commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of these lectures are marked absent.



## SCHOLARSHIPS, MEDALS, PRIZES AND EXAMINATIONS

## SCHOLARSHIPS

1. **Association of Registered Nurses of the Province of Quebec.**

A scholarship of \$250.00 to a graduate of an approved school of nursing in the Province of Quebec for any course selected in the School for Graduate Nurses, McGill University.

2. **Children's Memorial Hospital School of Nursing.**

A scholarship to one of its graduates in the form of maintenance at the Hospital during one year's study at the School for Graduate Nurses, McGill University.

3. **The Flora Madeline Shaw Memorial Fund.**

A scholarship of \$500.00 is offered in memory of Miss Flora Madeline Shaw to nurses wishing to take a graduate course at the School for Graduate Nurses, McGill University, Montreal. All Registered Nurses who have matriculation standing will be eligible for this scholarship. Graduates of this School wishing to take a second year at the School will also be considered eligible.

4. **Harry J. Crowe Scholarship.**

The establishment of the Harry J. Crowe Scholarship is of great importance to nursing education. For ten years (and longer if the fund will permit), a \$600.00 scholarship is to be awarded to the largest hospital in each province and in Newfoundland, and an additional one to the Halifax Victoria General Hospital, for graduate study in nursing education or in dietetics in a Canadian University.

5. **Montreal General Hospital School of Nursing.**

The Mildred Hope Forbes Memorial Scholarship. A scholarship established by Mrs. Norman Wilson in memory of the late Mildred Hope Forbes, a graduate of the Montreal General Hospital School for Nurses.

The value of this scholarship is sufficient to enable *four* graduate nurses each year to take one year's work in the School for Graduate Nurses, McGill University.

6. **Royal Victoria Hospital School of Nursing.**

1. A yearly scholarship given by the Board of Management, Royal Victoria Hospital, for graduate work in nursing in McGill University.



2. Dr. Garrow Scholarship, created mainly by the nurses of the Royal Victoria Hospital, given each year for graduate work at McGill University.
3. Harry J. Crowe Scholarship of \$600.00 to a graduate of the Royal Victoria Hospital for a course in nursing or dietetics in a Canadian University.
7. **Shriners' Hospital for Crippled Children.**  
A scholarship in the form of maintenance at the Shriners' Hospital for Crippled Children, Montreal, during one year's study at the School for Graduate Nurses, McGill University.
8. **Victorian Order of Nurses for Canada.**  
The Victorian Order of Nurses for Canada offers a limited number of scholarships of \$400.00 each, to graduate nurses who wish to avail themselves of a graduate course in Public Health Nursing at any of the Canadian Universities where this course is given. Upon successful completion of her course, a nurse accepting one of these scholarships is expected to return to the service of the Victorian Order of Nurses for one year.

#### MEDALS AND PRIZES

The Lieutenant-Governor of the Province of Quebec offers annually for competition a silver medal to be awarded to the student obtaining the highest standing in the course of Teaching in Schools of Nursing and a bronze medal to the student obtaining the highest standing in the course in Public Health Nursing.

Dr. Helen R. Y. Reid offers a prize of books, to be awarded to the student obtaining the highest standing in the course of Administration in Schools of Nursing.

#### EXAMINATIONS

Certificates or diplomas are awarded to students who obtain an average mark of fifty per cent in all examinations.

Results of examinations are recorded according to class, as follows: Class I, 75% to 100%; Class II, 60% to 74%; Class III, 50% to 59%.

In the case of students who do field work, satisfactory reports must also be received from the agencies with which their field work has been taken.

Examinations are held in some subjects at the end of the first term and final examinations at the end of the session.



### FEES AND DEPOSITS

The fee for any certificate course is \$100.00 a year (including the use of the Library), to be paid on or before October 10th, or payable in two instalments of \$51.00 each, the first to be paid by October 10th and the second by February 1st.

Regular students pay in addition \$7.00 for the use of the skating rinks and tennis courts and for admission to the home games under the control of the Athletic Board; \$2.50 for the McGill Women Students' Society and \$1.50 for the McGill Daily, as well as special fees for laboratory courses.

Students are also required to deposit with the Bursar the sum of \$5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

*For Late Registration:*—Those students who register after the period of university registration will be charged an additional fee of \$5.00.

*Partial Students:*—The fees for partial students are: \$4.00 for library; \$3.00 for athletics and athletic grounds, and a fee at the rate of \$7.00 for an hour of instruction per week during the academic year; special fee for courses which include laboratory work. They may also secure the privileges of the skating rinks and tennis courts during the session, and admission to the home games under the control of the Athletic Board by the payment of an additional fee of \$4.00. They may also become members of the Women's Society on payment of the regular fee of \$2.50.

### EXPENSES

1. *Board and Residence:*—Information about boarding and lodging houses may be had on arrival at the School. Every assistance is given to students in locating suitable rooms, but it is necessary for the student to make the final arrangements in person.

2. *Approximate Estimate of Cost of Course:*—Students who register in those courses requiring field work will take this extra time into consideration in estimating their expenses. A statement of average expenses for the academic year (30-32 weeks) is as follows:

University fees .....	\$110.00	
Books .....	20.00	to \$ 40.00
Room (30-32 weeks) .....	175.00	" 225.00
Board .....	225.00	" 300.00
Incidentals .....	30.00	" 40.00
Average total .....	560.00	" 700.00



### COURSES OFFERED BY THE SCHOOL FOR GRADUATE NURSES

An understanding of the professional courses in nursing education, whether it be in the art of teaching, supervision, or administration in schools of nursing or in public health work in the community, requires the preliminary study of basic subjects, principles and methods in the fields of general and professional education upon which such arts are based, in order to adapt them to the special needs and fields in nursing. Teachers (classroom, clinical or community health teachers) require advanced knowledge of the subjects which they are to teach in addition to knowledge and skill in the art of teaching. Administrators, like principals of other schools, or organizations, require that broad preparation and experience in teaching, supervision and administration which will enable them to establish a sound professional course or service in nursing, to guide and direct their teachers and supervisors in carrying out the school or community health programme, to guide and counsel students, and to act as leaders in nursing in schools and communities.

#### I. TEACHING IN SCHOOLS OF NURSING

Diploma—"Instructor in Schools of Nursing."

Adviser: Miss Marion Lindeburgh.

This course of study is planned to prepare qualified nurses for positions as instructors in schools of nursing.

*Certificate Course* (one year):—A certificate is granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be permitted to include one or more of the Suggested Electives with the approval of the Director.

*Diploma Course* (two years):—The diploma is granted for the satisfactory completion of the Required Courses listed under First and Second Years, together with one or more Suggested Electives.

#### FIRST YEAR

(*Certificate*)

#### SECOND YEAR

(*Diploma*)

##### (a) General Academic

*Required:—*

9. Psychology I.

*Required:—*

19. Sociology I.

*Suggested Electives:—*1. Political Economy; 2. Political Economy; 3. English; 3A. English; 4. French; 5. History; 7. History; 10. Psychology; 11. Psychology; 13. Public Speaking.



## (b) Professional Courses in Education

*Required:—*

25 (a) and (b). Education I.

*Required:—*

24. Psychology I.

26. Education II.

*Suggested Electives:—*51. Philosophy; 52. Philosophy; 53. Philosophy.

## (c) Nursing Education—General

*Required:—*

30. Health and Nursing Legislation.

37 (a). Preventive Medicine and Hygiene *or*

38 (a). Public Health Nursing.

47. History of Nursing.

*Required:—*

34. Mental Hygiene.

37 (a). Preventive Medicine and Hygiene *or*

38 (a). Public Health Nursing.

*Suggested Electives:—*37 (b). Preventive Medicine and Hygiene; 38 (b). Public Health Nursing. Refresher Courses: 41. Communicable Diseases; 42. Obstetrics 43. Tuberculosis.

## (d) Nursing Education—Teaching in Schools of Nursing

*Required:—*14. Bacteriology *or*17. Physiology I, *or*

15. Chemistry XVI.

50 (a), (b), (c). Teaching in Nursing Schools.

*Required:—*14. Bacteriology I *or*17. Physiology I, *or*

48. Pharmacology and Therapeutics.

50. Teaching in Nursing Schools.

*Suggested Electives:—*15A. Biochemistry; 33. Health Education; 45. Supervision in Nursing Schools.

## II. SUPERVISION IN HOSPITALS AND SCHOOLS OF NURSING

Diploma—"Supervisor in Hospitals and Schools of Nursing."  
Adviser: Miss Marion Lindeburgh.

The following course of study is planned to prepare qualified nurses for positions as clinical instructors, supervisors, and assistant superintendents, in schools of nursing. Previous experience as a head nurse or an equivalent satisfactory executive or teaching experience is desirable in order that students may profit fully by the course.



*Certificate Course* (one year):—A certificate is granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be permitted to include one or more of the Suggested Electives with the approval of the Director.

*Diploma Course* (two years):—The diploma is granted for the satisfactory completion of the required courses listed under First and Second Years, together with one or more Suggested Electives.

**FIRST YEAR**  
(Certificate)

**SECOND YEAR**  
(Diploma)

(a) General Academic

*Required:—*

- 9. Psychology I.
- 19. Sociology I.

*Required:—*

- 21. Sociology IV *or*
- 22. Sociology VII.

*Suggested Electives:—*1. Political Economy; 2. Political Economy; 3. English I; 3A. English II; 4. French; 5. History; 7. History; 10. Psychology; 11. Psychology; 13. Public Speaking.

(b) Professional Courses in Education

*Required:—*

- 25 (a). Education I.

*Required:—*

- 24. Psychology I.
- 26. Education II.

*Suggested Electives:—*25 (b). Education I; 51. Philosophy; 52. Philosophy; 53. Philosophy.

(c) Nursing Education—General

*Required:—*

- 34. Mental Hygiene.
- 37 (a). Preventive Medicine and Hygiene *or*
- 38 (a). Public Health Nursing.

*Required:—*

- 30. Health and Nursing Legislation.
- 33. Health Education.
- 37 (a). Preventive Medicine and Hygiene *or*
- 38 (a). Public Health Nursing.
- 47. History of Nursing.

*Suggested Electives:—*32. Child Hygiene; 34. Mental Hygiene; 35. Nutrition; 37 (b). Preventive Medicine and Hygiene; 38 (b). Public Health Nursing.



## (d) Nursing Education—Supervision in Nursing Schools

*Required:—*

45. Supervision in Nursing Schools.  
 50 (a) (b) and (c). Teaching in Nursing Schools.  
 Basic Sciences:  
 14. Bacteriology I or  
 17. Physiology I or  
 15. Chemistry XVI.

*Required:—*

- Basic Sciences:  
 14. Bacteriology I or  
 17. Physiology I.  
 48. Pharmacology and Therapeutics.  
 Specialized Supervision:  
 (One of the following)  
 Communicable Diseases.  
 Medicine.  
 Mental Hygiene.  
 Obstetrics.  
 Out-Patient Department.  
 Operating Room.  
 Pediatrics.  
 Surgery.

*N.B. Specialized Supervision:—*Refresher content courses and six weeks' intensive experience in one of the above departments together with related courses selected from suggested electives.

## III. ADMINISTRATION IN HOSPITALS AND SCHOOLS OF NURSING

Diploma—"Superintendent of Nursing and Director of School of Nursing."  
 Adviser: Bertha Harmer.

The following course of study is planned to prepare women of superior qualifications and experience for positions as superintendents and directors in schools of nursing. Satisfactory experience of at least two years in administrative and educational work in schools of nursing is required as a prerequisite to this course.

*Certificate Course, (one year):—*A certificate may be granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be required to include one or more of the Suggested Electives, and are required to complete field work of from three to six weeks depending upon the student's previous training and experience.

*Diploma Course:—*The complete course outlined below, leading to the diploma, covers a period of two academic years, together with the required field work, unless preceded by a year's study in either Course I or Course II outlined above.



## FIRST YEAR

(Certificate)

## SECOND YEAR

(Diploma)

## (a) General Academic

*Required:—*

- 9. Psychology I.
- 19. Sociology I.

*Required:—*

- 3A. English II.
- 5. History I.
- 21. Sociology IV *or*
- 22. Sociology VII.

*Suggested Electives:—*1. Political Economy; 2. Political Economy; 3. English; 4. French; 5. History; 7. History; 10. Psychology; 11. Psychology; 13. Public Speaking.

## (b) Professional Courses in Education

*Required:—*

- 25 (a). Education I.

*Required:—*

- 24. Psychology IX.
- 26. Education II.

*Suggested Electives:—*51. Philosophy; 52. Philosophy; 53. Philosophy.

## (c) Nursing Education—General

*Required:—*

- 30. Health and Nursing Legislation.
- 34. Mental Hygiene.
- 37 (a). Preventive Medicine and Hygiene *or*
- 38 (a). Public Health Nursing.
- 47. History of Nursing.
- 50 (a). Teaching in Nursing Schools.

*Required:—*

- 33. Health Education.
- 37 (a). Preventive Medicine and Hygiene *or*
- 38 (a). Public Health Nursing.
- Any two of the following:
- 14. Bacteriology I.
- 15. Chemistry.
- 17. Physiology I.
- 48. Pharmacology and Therapeutics.

## (d) Nursing Education—Administration

*Required:—*

- 27. Administration in Nursing Schools.
- 29. Hospital Economics and Administration.

*Required:—*

- 45. Supervision in Nursing Schools.
- 27A. Special Problems in Administration.



## IV. VISITING NURSING AND HEALTH TEACHING

Diploma—"Visiting Nurse and Health Teacher."  
Adviser: Miss Isabel Manson.

This course is designed to give to graduate nurses a basic preparation for Public Health Nursing in its generalized and specialized forms.

*Certificate Course* (one year):—A certificate is granted for the satisfactory completion of the required courses listed below under the First Year, together with the required field work. This is essentially a generalized course, but in cases where it seems advisable, emphasis may be placed on some selected branch of the work through the arrangement of the field experience, in order to prepare a nurse for a particular position. Students may be permitted to include one or more of the Suggested Electives with the approval of the Director.

*Diploma Course* (two years):—The complete course covers a period of two academic years together with required field work. The second year is devoted to specialization in a selected field of Public Health Nursing, such as Mental Hygiene, Child Welfare, Medical Social Service, School Nursing, etc. Courses to be chosen from those below, subject to individual arrangement.

The courses required for *all* students in the Second Year are indicated below. Additional courses and field experience required depend upon the field elected by the student for specialization.

## FIRST YEAR

(Certificate)

## SECOND YEAR

(Diploma)

## (a) General Academic

*Required:—*

9. Psychology I or  
19. Sociology I.

*Required:—*

Dependent upon field of specialization.

*Suggested Electives:—*1. Political Economy; 2. Political Economy; 3. English 1; 3A. English II; 4. French; 5. History; 7. History; 10. Psychology; 11. Psychology; 13. Public Speaking.

## (b) Professional Courses in Education

*Required:—*

- 25 (a). Education I.

*Required:—*

Dependent upon field of specialization.

*Suggested Electives:—*24. Psychology; 25 (b). Education I; 26. Education II.



## (c) Nursing Education—General

*Required:—*

- 30. Health and Nursing Legislation.
- 47. History of Nursing.

*Suggested Electives:—* Refresher Courses: — 41. Communicable Diseases; 42. Obstetrics; 43. Tuberculosis.

## (d) Nursing Education—Public Health Nursing

*Required:—*

- 31. Bacteriology in Public Health.
- 32. Child Hygiene.
- 33. Health Education.
- 34. Mental Hygiene.
- 35. Nutrition.
- 37 (a) and (b). Preventive Medicine and Hygiene.
- 38 (a) and (b). Public Health Nursing.
- 39. Social Case Work.

*Required:—*

Specialization in one of the fields of Public Health Nursing with appropriate field work and related courses selected from suggested electives.

*Suggested Electives:—* 1B. Social and Industrial Legislation; 15. Chemistry; 17. Physiology; 34A. Mental Hygiene; 39A. Introduction to Social Work; 39B. Social Case Work; 40. Social Welfare Administration; 46. Supervision and Organization in Public Health Nursing.

## PRACTICE WORK IN PUBLIC HEALTH NURSING

Ten weeks of practice in Public Health Nursing is arranged during September and in May and June following the examinations.

Students will not be expected to repeat experience gained under satisfactory conditions. Individual adjustment of field work will be made in each case.

Weekly conferences are held in connection with this work and written reports are required.

Practice work may be arranged with the following:

- Child Welfare Association.
- Family Welfare Association.
- Industrial Nurses.
- Mental Hygiene Institute.



Montreal Department of Health, Division of Child Hygiene.

Outremont Public Health Department, School Nursing.

Social Service Department of the Hospitals.

Victorian Order of Nurses.

Plans are being made to secure a practice field in rural work in one of the County Health Units near Montreal.

Students are reminded that it is only through the courtesy of the agencies that field work is available and are asked to comply wholeheartedly with both the letter and spirit of all regulations of the organizations.

When working with the Victorian Order of Nurses, the students are asked to wear a plain one or two-piece dress of washable material in gray or blue, with white collar and cuffs and a black Windsor tie. Plain dark hat and coat must also be provided.

#### V. SUPERVISION AND ORGANIZATION IN PUBLIC HEALTH NURSING

Diploma—"Supervisor in Public Health Nursing."

Adviser: Miss Isabel Manson.

This course is planned to prepare women of superior qualifications and experience for positions as directors, supervisors and teachers in Public Health Nursing.

The course is offered in the Second Year only. The First Year of Course IV, and at least one year of satisfactory experience, are prerequisite.

The diploma is granted for the satisfactory completion of the required courses listed below together with two or more full courses from the Suggested Electives and the required field work.

##### (a) General Academic

*Required:—*

One of the following: (and)

11. Psychology VII.

21. Sociology IV.

22. Sociology VII.

*Required:—*

One of the following:

3A. English.

5. History.

7. History.

*Suggested Electives:—*2. Political Economy; 3. English; 4. French; 10. Psychology; 13. Public Speaking; 51. Philosophy; 52. Philosophy; 53. Philosophy.



## (b) Professional Courses in Education

*Required:—*

24. Psychology IX.

*Suggested Electives:—*25 (b). Education I; 26. Education II.

## (c) Nursing Education—General

*Required:—*

30. Health and Nursing Legislation.

47. History of Nursing.

*Suggested Electives:—*1B. Social and Industrial Legislation; 15. Chemistry; 17. Physiology. Refresher Courses: 41. Communicable Diseases; 42. Obstetrics; 43. Tuberculosis.

## (d) Nursing Education—Supervision in Public Health Nursing

*Required:—*

40. Social Welfare Administration.

44. Special Problems in Supervision.

46. Supervision and Organization in Public Health Nursing.



## DESCRIPTION OF COURSES

## COURSES IN THE SCHOOL FOR GRADUATE NURSES

## 13. Public Speaking.

Lectures in speech and voice training. Practice in oral delivery.  
One hour, second term.....Mrs. Bragg.

## 27. Administration in Nursing Schools.

(a) *First Term*:—This course deals with the professional administration of the hospital department of nursing service,—its function, organization, control, cost of nursing service; the personnel—staff required, qualifications and selection, duties and responsibilities, staff education; ward equipment; administration and supervision of nursing; care of patients; records and reports.

*Second Term*:—Deals with the educational administration of hospital and other types of schools of nursing—their function, organization, support, control and management; relationship to the hospital and department of nursing service; the personnel—number, qualifications, selection, duties and responsibilities in the school and department of nursing service; staff education, tenure and promotion; school buildings, classrooms, and equipment; educational programme, theory and practice; standardization and registration; school budgets.

(b) Weekly excursions to hospitals and public health organizations in the community; weekly conferences and discussions; reports of observations and special problems in administration.

(c) Intensive experience in administration in affiliated hospitals; three to six weeks, depending on student's previous experience and training.

Three hours.....Miss Harmer and assistant.

## 27A. Special Problems in Administration.

Conferences, discussion and reports.

One hour.....Miss Harmer and other instructors.

## 29. Hospital Economics and Administration.

*Lectures and Observations*:—This course deals with the hospital and its relation to the community; the board of trustees, the medical board and the general staff; problems of planning, organizations, equipment and administration of the various departments; the purchase and handling of supplies and other problems of hospital administration from the point of view of the administrator.

Two hours, first term.....Dr. MacKenzie.



**30. Health and Nursing Legislation.**

The purpose of this course is to enable the student to know and to use effectively health and nursing legislation.

Two hours, second term.....Miss Upton and other instructors.

**31. Bacteriology in Public Health.**

Classes and Laboratory Work:—The study of the more common pathogenic organisms, moulds and yeasts; use of microscope; preparation and use of culture media; bacteriology of milk and water; applications of bacteriology in public health and preventive medicine.

Two hours, first term..Department of Public Health and Preventive Medicine.

**31A. Bacteriology 1.**

Introductory survey and elementary technique. Morphology, physiology, growth and death. Bacteriological technique: manipulative, microscopic, sterilization, media and media-making, cultural methods, animal experiments, classification, variation.

20 lectures and 60 hours' practice work (2 days a week).

Professor Murray and Assistants.

**32. Child Hygiene.**

The health of the infant and the pre-school child.

Dr. Chandler and Miss Beith.

The health of the school child and health education in the school.

Three hours, first term.....Dr. Fleming and Miss Lindeburgh.

**33. Health Education.**

Principles of construction of a health teaching programme; gradation and suitability of subject matter; principles of teaching and methods of presentation; lesson plan construction. Demonstration and practice teaching.

Two hours, second term.....Miss Lindeburgh and Miss Manson.

**34. Mental Hygiene and Psychiatry.**

Lectures, case conferences and demonstrations cover: principles underlying healthy mental development; prevention of mental maladjustment and mental diseases; maladjustments met with in everyday life, from the simplest to the most severe. Discussions also include history, methods and organization of parent study groups, family relationships,



etc. Course is outlined especially to meet needs of the nurse in general and special fields. The Mental Hygiene Institute is available for practical work.

Two hours, second term.....Dr. Mitchell.

#### **34A. Mental Hygiene and Psychiatry.**

Intensive practical and academic training in Mental Hygiene and Psychiatry for nurses who wish to specialize in this field.

Prerequisite 34.....Dr. Mitchell.

#### **35. Nutrition and Health.**

The first part of this course is a study of the elements of nutrition and dietetics, the essentials of an adequate diet, and the nutritive properties of common food materials.

The second part of the course is devoted to the discussion of the practical application of these principles in the various fields covered by the Public Health Nurse.

Two hours, second term.....Miss Hayward and Miss Bell.

#### **37. Preventive Medicine and Hygiene. (a) First term; (b) Second term.**

A brief history of the development and present status of public health administration; the control and prevention of communicable diseases; maternal and infant hygiene; oral hygiene; discussion of sanitation, housing, water, food, and milk supply; industrial hygiene.

Three hours..Department of Public Health and Preventive Medicine.

#### **38. Public Health Nursing.**

(a) First term.

Characteristics and trends of modern Public Health Nursing; brief history of development; fundamental principles.

(b) Second term.

Organization in Public-Health Nursing; the special fields; records and statistics.

(c) Excursions for the observation of the health and social activities of the community. Conference and discussion.

(d) Practice period of ten weeks to gain experience in Public Health Nursing. Weekly conferences and written reports.

Three hours.....Miss Manson and other instructors.



**39. Social Case Work.**

Principles, objective and method of case work, with special emphasis on actual case studies; adequate knowledge as a basis for judgment and action in effecting individual adjustments; how obtained and applied; relief—its place in case work; the relation of case work to the community; records; the use and purpose of records; record making; forms; correspondence, etc.

Two hours.....Miss Reid.

**41. Communicable Disease.**

Control and care in communicable diseases.

Ten lectures and clinics.....Dr. Cushing.

**42. Obstetrics.**

Pre-natal and natal work. Maternal and infant care.

Six lectures.....Dr. Goodall.

**43. Tuberculosis—Prevention, Control and Treatment.**

Ten lectures, second term.....Dr. Byers.

**44. Special Problems in Supervision.**

This course is for discussion of the problems arising in supervision of public health nursing. Each student will make a special study of one of these problems and present the result of the study in a written report.

One hour.....Miss Manson and other instructors.

**45. Supervision in Nursing Schools.**

(a) The organization and administration of hospital and school; the dual executive and teaching functions of the supervisor; relationship to the headnurses and their dual functions; principles and methods of supervision; application to the management and supervision of wards and departments, and the care of patients; staff conferences; organization and sequence of the clinical content of the curriculum; the correlation of theory and practice, and methods of clinical teaching.

Forms, records and reports. Observation supervision.

(b) Six weeks' intensive experience in the supervision of one of the major services or departments in affiliated hospitals or out-patient departments.

Two hours, second term..Miss Lindeburgh and clinical supervisors.



**46. Supervision and Organization in Public Health Nursing.**

(a) This course deals with the principles and practice of supervision in Public Health Nursing with special reference to staff education and student field work. Discussion of problems of organization and administration; personnel management; financial support, publicity, etc.

(b) Observation of methods and content of supervision followed by conference and discussion.

(c) Field experience with Public Health Nursing agencies. Opportunities for practice teaching and supervision. Conferences for discussion of experience.

Three hours.....Miss Manson.

**47. History of Nursing.**

Lectures, readings and written reports.

One hour.....Dr. Abbott and Miss Manson.

**48. Pharmacology and Therapeutics.**

Lectures and Demonstrations:—This course includes a discussion of drugs, their sources, crude forms, and preparation, with laboratory demonstrations; proper methods of administration, with physiological, therapeutic and toxic action.

(Not given in 1931-32).....Dr. Scriver.

**50. Teaching in Nursing Schools.**

(a) The historical development of nursing curricula; brief survey of current critical studies and revisions of professional curricula; comparison of nursing curricula with other vocational and professional curricula; purpose and aims of schools of nursing; principles of curriculum construction and their application to the selection and organization of the content of nursing curricula, including theory and practice.

(b) Classification of subjects in the curriculum to be taught; the selection, preparation and qualifications of teachers; teaching schedules; educational opportunities and special problems in teaching; classrooms, library, study rooms, text and reference books and other teaching materials; the grouping, sequence, and arrangement of classes; the application of principles and modern methods of teaching to the various subjects to be taught in schools of nursing with special emphasis on the principles and practice of nursing.



## (c) Observation and Practice Teaching.

*First Term:*—Weekly observation of classes taught followed by conferences and discussions. Students prepare reports of observations, teaching equipment, text and reference books.

*Second Term:*—Students prepare lesson plans, participate in teaching, and finally are responsible for supervised practice teaching, followed by conferences in subject which they later expect to teach. Special emphasis is placed on the principles and practice of nursing.

Three hours.....Miss Lindeburgh, Professor Clarke and other instructors.

## COURSES IN THE FACULTY OF ARTS AND SCIENCE

## 1. Elements of Political Economy (Economics 1). Second Year.

Mon., Wed., Fri., at 11.

Professors Hemmcon and Culliton and Mr. Forsey.

## 2. Social and Industrial Legislation (Economics 14). Fourth Year and Graduate Students.

First term; in alternate years. (Given in 1931-32.)

Mon., Wed., Fri., at 12.

## 3. English Composition (English 1).

Sat., at 12.....Professor Noad, Miss Mackenzie and Assistants.

Professor Noad will have the general direction of this course.

Section and weekly conference hours to be arranged.

## 3A. English Literature (English 2).

General Course from Anglo-Saxon times to the present day.

Tu., Th., and, at the pleasure of the instructor, Sat. at 12.

Professor Macmillan and Assistants.

Weekly conference hours to be arranged. Mr. McBain will have the general direction of the tutorial conferences.

## 4. French Language (French 1). First Year.

Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11....Professors du Roure, Villard, Furness, d'Hauteserve

and Mme. Durand-Joly.



*Texts:*—(a) General Course.—Green and Ford, French Composition (Oxford), or Cameron, French Composition (Holt); Lavis, Histoire de France, Cours Moyen; Jules Romaine, Knock ou le Triomphe de la médecine (The Century Co.); Maupassant, Contes Choisis; Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford). (b) Advanced Course.—D. L. Buffum, French Short Stories (Holt); Racine, Andromaque (Ginn); Mérimée, Contes et Nouvelles (Oxford); Molière, Les Précieuses Ridicules (Heath); Moraud, French Composition (Oxford).

5. **General History of Europe, from the Break-up of the Roman Empire to 1914 (History 1).** First Year.

Tu., Th., Sat., at 11.....Professors Waugh and MacDermot.

6. **General History of North and South America (History 2).** Second Year.

Mon., Wed., Fri., at 9.....Professor Adair.

7. **History of Canada (History 4).** Third Year.

Tu., Th., Sat., at 9.....Professor Fryer.

8. **History of Europe, 1789-1914 (History 6).** Fourth Year.

Tu., Th., Sat., at 10.....Professor Fryer.

9. **Introduction to Psychology (Psychology 1.).** Second Year.

Lectures and experiments.

Mon., Wed., at 10, and one laboratory period to be arranged.

This course is a prerequisite for all other courses.

Professor Tait and Mr. Martin.

10. **Child Psychology (Psychology 6).** Third and Fourth Years.

The mental development of the pre-school child.

Lectures, readings and reports (half course).

(Given in 1931-32.)

Second term; Tu., Th., Sat., at 10.....Professor Tait.

Prerequisites:—Psychology 2 or 5, taken previously or concurrently.

11. **Human Motivation (Psychology 7).** Third and Fourth Years.

An approach to a scientific theory of human conduct, individual and collective.



- Lectures, readings and reports.  
Tu., Th., Sat., at 10.....Professor Tait.  
Prerequisites:—Psychology 2 or 4, taken previously or concurrently.

**12. Vocational and Industrial Psychology (Psychology 12). Third and Fourth Years.**

- Lectures, readings and reports.  
First term; Tu., Th., Sat., at 11.....Professor Tait.  
(Given in 1931-32.)  
Prerequisites:—Psychology 3, taken previously or concurrently.

**15. Elementary Chemistry (Chemistry 16).**

The fundamental laws dealing with chemical change; the preparation, properties and uses of the common elements and their compounds; an introduction to the chemistry of organic substances.

The lectures will explain the commoner processes of life and will be illustrated by appropriate demonstrations suited to the work of greatest interest to the students.

Two hours lectures, three hours laboratory....Professor Hatcher.

**18. Elementary Zoology (Zoology 1).**

- First term; Mon., Wed., at 2.  
Laboratory Fri., 2-4.....Professor Berrill.

**19. Introduction to the Study of Society (Sociology 1). Second Year.**

An environmental approach to the study of human nature and behaviour; an objective and scientific analysis of human relations; ecological and social forces; the great society and the growth of communication; conflict as a social function; the social order and social change; definition and use of the main sociological concepts.

- (a) Tu., Th., Sat., at 10.....Professors Dawson and Hughes.  
(b) Tu., Th., Sat., at 11.....Professors Dawson and Hughes.

**20. The Community (Sociology 2). Third and Fourth Years.**

The community as the unit of approach in the study of the social, industrial and political phases of urban and rural life; how basic institutions and human behaviour are affected by the fundamental changes taking place in modern communities; mobility of population in relation to the problem of social and industrial organization.

Tu., Th., Sat., at 9.....Professor Dawson.



**21. Social Pathology (Sociology 4). Third and Fourth Years.**

Social disorganization; poverty and dependency as related to unemployment, casual work and individual disabilities; economic and social demoralization; adult crime.

*Text:*—Parmelee—Poverty and Social Progress (Macmillan).

Mon., Wed., Fri., at 10, second term.....Professor Hughes.

**22. The Family (Sociology 7). Third and Fourth Years.**

The study of the family as the fundamental institution, its early forms, attitudes, and natural history, sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational and legal aspects of family life; present-day disorganization and reorganization of family life.

Mon., Wed., Fri., at 10; first term.....Professor Dawson.

**23. The Sociology of the Child (Sociology 9). Third and Fourth Years.**

The child as a developing personality; the normal cycle of social growth in the family; modern supplementary institutions for the normal child, such as the school, the playground and the social agency; the dependent child and the delinquent child, and the institutions which treat them.

Mon., Wed., Fri., at 12; first term.....Professor Hughes.

**24. Educational Psychology (Psychology 9). Third and Fourth Years.**

Mental inheritance, types and theory of the learning process, motivation and economy of learning, transfer of training, mental hygiene; educational and vocational guidance; selection and coordination of subject matter, improvement of teaching methods, measuring results of teaching; what scientific method has done for Education.

Lectures, readings, experiments and reports.

Two lectures and one laboratory period.

Prerequisites:—Psychology 2 or 3, taken previously or concurrently.

Tu., Th., Sat., at 11.....Professor Kellogg.

**25. General Principles of Education (Education 1). Third Year.**

(a) The educative process; educational ends; social implications of education; the school; forms of school; school system; modern trends in education.



(b) History of education; Greek education; the Renaissance; modern education from Rousseau; Studies of (i) Plato's "Republic," (ii) Milton's "Tractate of Education; (iii) Rousseau's "Emile," (iv) Spencer's "Education."

Mon., Wed., Fri., at 4.....Professor Clarke.

**26. Method and School Organization (Education 2). Fourth Year.**

(a) Theory of instruction; principles of method; construction and adjustment of curricula; types of teaching procedure; (b) methods of teaching school subjects; (c) school organization and administration, including a survey of the School Law and Regulations of the Province of Quebec; (d) control and discipline.

Tu., Th., at 4; Sat., at 12.....Professor Clarke.

**51. Introduction to Philosophy and Logic (Philosophy 1).**

(a) A careful study of the essentials in Locke, Berkeley, Hume and Kant, and their application to general philosophy.

(b) The elements of Logic. Deductive and Inductive. Exercises in Logic.

Tu., Th., Sat., at 10....Professors MacKay, Hendel and Porteous.

**52. Moral Philosophy (Philosophy 2).**

A study of moral character and of the various types of ethical principles recognized in Western culture. The first term is devoted entirely to a consideration of the great classics of moral philosophy. The latter part of the second term is spent upon contemporary ethics developed in the light of the modern sciences of man and society. The reading for the whole course comprises: Plato's *Republic*; *Selections* from Aristotle, Hobbes, Spinoza, Rousseau and Kant; Bishop Joseph Butler, *Fifteen Sermons Preached in the Rolls Chapel* (ed. Mathews, Bohn Lib., Bell); J. S. Mill, *Utilitarianism*; W. E. Hocking, *Human Nature and Its Remaking* (Yale University Press); W. Fite, *An Adventure in Moral Philosophy*.

Tu., Th., Sat., at 11 (two lectures and one discussion).

Professor Hendel.



**53. History of Modern Philosophy (Philosophy 4).** (This course is divided into two half courses, (a) and (b).)

A survey of the ideas and philosophies of the period from the Renaissance to the present. The Philosophers are interpreted both as individuals and as representative men influenced by and contributing to the opinions and activities of their own times. The lectures aim at giving comprehensive views of the state of thought in the Seventeenth, Eighteenth and Nineteenth Centuries, particularly as regards science and religion, and history, politics and the social conditions. The discussions in conference are on the writings of the masters of modern philosophy. *Selections* from Descartes, Spinoza, Leibniz, Locke, Hume, Kant, Hegel and Bergson.

(a) Modern Philosophy before Kant.

(b) Kant and subsequent Philosophy.

Tu., Th., Sat., at 12 (two lectures and one discussion).

Professor Hendel.

**COURSES IN THE FACULTY OF MEDICINE**

**15A. Biochemistry—(Biochemistry 1).**

(a) Lectures: Monday at 10; Wednesday at 9; Friday at 2; Saturday at 9.

(b) Laboratory: 12 hours a week, on Monday, Wednesday and Friday.

*Text-books:*—Bodansky, "Introduction to Physiological Chemistry." Cameron, "Text-book of Biochemistry."

**17. Physiology, Introductory Course (Physiology 1).**

This course, which serves as an introduction to the subject for medical students, is likewise designed to meet the needs of students of Psychology or of any other student who wishes to make acquaintance with Physiology. Students of Biology will find it valuable as giving an insight into the experimental side of their subject.

Along with the lectures a short laboratory course will be given, this latter being only for students who are not simultaneously taking or have not already taken a course in Anatomy or Zoology. The total time, with laboratory, is about 3 hours a week.



## COURSES IN THE SCHOOL FOR SOCIAL WORKERS

**39A. Introduction to Social Work (Social Work I).**

The aim of this course is to present a general view of the social work field. Through a discussion of the function of community agencies, the principles and methods of social case work are also dealt with.

Three hours, First Year.....Miss Reid.

**39B. Social Case Work (Social Work X).**

This course presents, through the study of actual histories, the case method of dealing with social maladjustment. It enables the student to approach, analyze and interpret individual, family and group problems and to recognize the basis upon which to work out a solution. It discusses the function of the different types of social agencies in the working out of a social programme, and offers a practical basis for constructive and preventive social work.

Three hours, Second Year.....Miss Reid.

**40. Social Welfare Administration (Social Work XVI).**

Historical development; scope, and relations between public and private agencies; organization and structure of a social agency; officers and boards of management; executive and staff; volunteer service; personal efficiency; office management; social agency accounting; social agency financing, individual, collective; social work publicity; social work statistics; social work co-ordination; the field of Protestant and non-sectarian social work in Montreal.

Two hours, Second Year, second term.....Dr. Pedley.



## McGILL UNIVERSITY LIBRARY SCHOOL

Plans for a sessional Library School at McGill University were made in the Spring of 1904 by Mr. C. H. Gould, then Librarian, in consultation with Dr. Melvil Dewey, Director of the New York State Library School at Albany. In order to lose no time, a summer course was provided for that year, thus constituting the first library school in Canada. Owing to limited funds, the winter course could not then be provided, and the summer course was repeated in 1905, 1911, 1913-14, 1920-24, 1926, and 1927. In 1928 the Summer Course became a regular part of the Library School and will continue to offer a six weeks' course of approved training for library assistants and librarians in small libraries.

In 1921 the University Librarian again proposed the establishment of a sessional course, and this was approved by Corporation in the same year and by the Governors early in 1922. The realization of these plans was made possible by the co-operation of the Carnegie Corporation with McGill University, and the first winter course under the auspices of a Canadian university opened in October, 1927. It was then accredited as a Junior Undergraduate Library School by the Board of Education for Librarianship of the American Library Association. In 1930 the Corporation of McGill University approved the raising of the entrance requirements, and the Library School became a graduate School, with the power of conferring the degree of Bachelor of Library Science. In addition to fundamental courses in library methods and administration, the School offers advantages and opportunities in training for special libraries and for college and university libraries, as it is situated in a large city which provides examples of libraries of all types and is part of a university with a recognized high standard of scholarship.

### REQUIREMENTS FOR ADMISSION

1. Applicants for admission to the course leading to the degree of Bachelor of Library Science must have a Bachelor's Degree from a recognized college or university and must present an official transcript of the college record.
2. Two months' satisfactory general experience in an approved library or its equivalent is recommended as desirable.
3. Applicants over thirty-five years of age are not encouraged to enter the School.
4. Ability to use a typewriter is a valuable part of the equipment of a library assistant, and students are encouraged to provide themselves with a portable typewriter or should rent one from the School.



### PARTIAL STUDENTS

A limited number of qualified students who are not candidates for the degree may be admitted to individual courses as partial students. Teachers and qualified persons may attend the special lectures. Before registration such students must satisfy the Faculty of the School of their ability to follow the courses selected, and they must fulfil all requirements of classroom work and tests prescribed for regular students in these courses. A certificate of attendance may be obtained on application to the Registrar of the University accompanied by the required fee; but no certificate shall be given for attendance at lectures unless the corresponding examinations have been passed. Such students can often more profitably attend the Evening Courses or the regular Summer Session, details of which may be obtained on application to the Secretary of the Library School.

### REGISTRATION AND ATTENDANCE

#### REGISTRATION

1. Students in the Library School are required to present themselves at the office of the Library School some time during the seven week-days preceding the commencement of lectures, in order to furnish the information necessary for the University records, and to register for the particular courses which they wish to attend. For dates, see page 63.

2. Upon registering, each student will receive cards of admission to the courses registered for, on presentation of which to the several instructors, his name will be entered on the class registers; or notification will be sent to the instructors, as may be found most convenient.

#### ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.

2. Excuses on the ground of illness or domestic affliction shall be dealt with only by the Director of the School. Medical certificates covering absences must be presented by the student immediately after his return.

3. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course shall not be permitted to take the regular examination in that course, and those whose unexcused absences in such a course shall exceed one-fourth of the total number of lectures must repeat the work in that course for credit.



4. Lectures will commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will count as one absence.

### SCHOLARSHIP AND PRIZES

1. The Ethelwyn M. Crossley Scholarship Fund is available for women students. Details may be obtained on application to the Secretary of the School.

2. Book prizes are given to the most efficient student in the courses on Library Administration, The History of the Book, Literature for Children, Cataloguing, and Reference Work.

### PHYSICAL EXAMINATION

All students entering the University are required by the Provincial Board of Health to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years, failing which they shall at once be vaccinated in a manner satisfactory to the Medical Examiner.

### FEES AND EXPENSES

#### 1. REGULAR STUDENTS.

Fees are due and payable to the Bursar at his office on October 15, but they will also be received before October 1. After October 15 or February 1 (as the case may be) an additional fee of \$2.00 will be exacted of all students in default.

Fee for the Library Course (including the use of the Library, and Diploma) .....	\$150.00
By instalments:	
First instalment, if paid before October 15.....	77.00
Second instalment, if paid before February 1.....	77.00
Fee for each supplemental examination .....	5.00

#### 2. PARTIAL STUDENTS

Fee for partial students, per point, in required courses...	15.00
Fee for partial students, per point, in elective courses ....	12.50
Library fee for partial student taking less than two points, unless registered at McGill .....	4.00
Certificate for partial students .....	1.00
For Athletics and use of Athletic Grounds .....	3.00



Immediately after October 15 (or February 1, in the case of students who pay by instalments), the Bursar will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes except on presentation of a receipt signed by the Bursar certifying the payment of the necessary fees.

### 3. STUDENT ACTIVITIES

A fee of \$3.00 is required of all students for Athletics and use of Athletic Grounds, except in the case of those Students who wish to have the privilege of joining in the various Student Activities and who pay the following fees:

Men Students—McGill Daily, \$1.50; McGill Union and Athletics, which includes the privilege of tennis courts and skating rinks and admission to all home games under the control of the Athletic Board, \$15.50. Total \$17.00.

Women Students—McGill Daily, \$1.50; McGill Women's Student Society, \$2.50; Athletics, which includes the privilege of tennis courts and skating rinks and admission to all home games under the control of the Athletic Board, \$6.00. Total, \$10.00.

### 4. CAUTION MONEY

Every student is required to deposit with the Bursar the sum of \$15.00 as Caution Money to cover damage done to furniture, books, apparatus, etc. This amount, less deduction (if any), will be refunded at the end of the session, on presentation of receipt.

### 5. FIELD WORK

The Library School trip to New York in March is a required part of the Library Course, and students should allow a minimum of \$75.00 for this purpose.

### 6. TEXTBOOKS AND MATERIALS

Students should allow approximately \$35.00 for textbooks, blank forms, cataloguing cards, and other library supplies needed during the session. These may be purchased at cost from the Secretary of the School. Portable typewriters may be rented, for use in the School only, at the rate of \$1.00 per month.

### 7. BOARD AND RESIDENCE

Information about boarding and lodging houses may be obtained on application to the Secretary of the School. Accommodation can be obtained in private houses in the vicinity of the Library at a cost of



\$60.00 and upwards per month, or, separately, board at \$45.00 to \$55.00 per month, and rooms from \$15.00 to \$20.00 per month. Men students can obtain board at the McGill Union at low rates, either in the dining room or at the lunch counter.

#### 8. CLUBS AND SOCIETIES

Women students of the School are eligible for membership in the Monteregian Club, 3426 Mc Tavish Street, and in the University Women's Club, 3492 Peel Street, in the immediate neighborhood of the School.

#### LIBRARY VISITS

The lectures and practice work of the School are supplemented and illustrated by required professional visits and reports:

- (a) Visits to libraries, binderies, book shops, museums, and printing establishments in Montreal and its neighborhood.
- (b) A week's visit, under the direction of members of the Faculty, to similar institutions in New York and adjacent cities.

#### PRACTICE WORK

After the final examinations, two consecutive weeks of practice work in a library of recognized standing are required. This affords the student an opportunity to acquire confidence in carrying out duties while under the supervision of an experienced librarian, and, at the same time, to observe how theories learned throughout the course are adapted to meet practical conditions.

#### ACADEMIC COSTUME

Bachelors of Library Science of McGill University are entitled to wear the regulation black Bachelor's gown and a Bachelor's hood of black lined with burnt orange silk and trimmed with white rabbit fur.



## COURSE OF STUDY—1931-1932

FIRST TERM				
	REQUIRED	Hours	ELECTIVE	Hours
<i>For all students. 15 hours to be taken.</i>	Cataloguing.....	4	History of the Book...	1
	Reference and Bibliography.....	4	Publicity and Extension.....	1
	Book Selection.....	3		
	Administration.....	2		
	Trade Bibliography and Orders.....	1		
SECOND TERM				
	REQUIRED	Hours	ELECTIVE (or equivalents from other groups)	Hours
<i>GROUP A For college library assistants. 15 hours.</i>	College and University Libraries.....	2	History of Books and Libraries.....	1
	Administration.....	2	Book Selection.....	1
	Cataloguing and Classification.....	2	Advanced Classification.....	2
	Reference and Bibliography.....	2	Special Libraries.....	2
	Circulation.....	1		
	Documents.....	2		
	Field Work.....	2		
<i>GROUP B For special library assistants. 15 hours.</i>	Special Libraries.....	2	History of Books and Libraries.....	1
	Indexing and Filing.....	1	Book Selection.....	1
	Advanced Classification.....	2	Administration.....	2
	Cataloguing and Classification.....	2	College and University Libraries.....	2
	Reference and Bibliography.....	2		
	Circulation.....	1		
	Documents.....	2		
	Field Work.....	2		
<i>GROUP C For children's and school library assistants. 15 hours.</i>	Library Work with Children.....	2	History of Books and Libraries.....	1
	School Libraries.....	1	Cataloguing and Classification.....	2
	Reference and Bibliography.....	2	Administration.....	2
	Circulation.....	1	Book Selection.....	1
	Field Work.....	2	(or equivalents)	



## DESCRIPTION OF COURSES

Lib. Sci. 1.—*Cataloguing and Classification*. Four points, first term.

The aim of the course is to give a thorough working knowledge of the principles of classification and cataloguing (including subject headings). It also gives drill in the form of the unit card and the actual procedure of the catalogue department. The students become thoroughly conversant with Dewey's and Cutter's classifications, the A.L.A. Catalog Rules, and Sears' Subject Headings, and each student completes a catalogue which illustrates the usual and special problems of classification and cataloguing and serves as the basis for practical problems in indexing and filing.

Lib. Sci. 2.—*Cataloguing and Classification*. Two points, second term.

Special problems of cataloguing and of classification.

Lib. Sci. 4.—*Advanced Classification*. Two points, second term.

The principles of classification, the history of their development and their application in the Dewey, Brussels, Cutter, Brown, and Library of Congress classifications.

Lib. Sci. 5-6.—*Reference Work and Bibliography*. Three points, each term. MISS HIGGINS.

During the first term a general view of the field of reference work is given through a study of the basic reference books. A more intensive study of the scholarly type of reference works follows in the second term. This course also involves the compilation of a practical bibliography as well as the reference use of bibliographies and government publications.

Lib. Sci. 7.—*Book Selection*. Three points, first term. PROFESSOR CARTER.

This course aims to train students in the ability to select books for different types of libraries and readers by interpreting community needs and interests in terms of the most helpful and interesting books. The course includes some study of the principles of selection and involves the reading of representative books in various fields as a basis for class discussion.



Lib. Sci. 8.—*Book Selection*. One point, second term. PROFESSOR CARTER.

Special problems in gauging demand and in the choice of books, including their use in voluntary education; popular editions; book of the month clubs, etc.

Lib. Sci. 9.—*Trade Bibliography and Orders*. One point, first term. MISS HIGGINS.

A study of the bibliographical equipment necessary in ordering books and periodicals, English, American, and foreign; the use of catalogues and trade lists; the equipment and administration of the order department; funds, invoices, and accounts; the recording of gifts; book-buying policy; problems and practice.

Lib. Sci. 10.—*Circulation*. One point, second term. MISS HIGGINS.

The organization of the circulation department, the equipment of the loan desk, and a comparative study of the different methods of charging books, with practice.

Lib. Sci. 11.—*Administration of Libraries*. Two points. First term. DR. LOMER.

An introductory survey of the relation of the library to other educational institutions, the underlying principles of business and service organization; elements of library administration; the qualifications of assistants; the ethics of librarianship; the appointment, qualifications and duties of trustees; committees, meetings, and minute book; statistics and reports.

Lib. Sci. 12.—*Administration and Organization of Libraries*. Two points. Second term. DR. LOMER, MR. TURNER, and SPECIAL LECTURERS.

A continuation of the first term. A consideration of the budget, distribution of funds, accounts; supplies and stock; inventory and checking stock; binding and repairing, materials, processes, and routine; personnel management and work schedules; staff records; the principles underlying planning and equipping libraries of different types (illustrated by plans, lantern slides, and visits); inter-relation of departments and economical routine; public library systems, branches, stations.

Lib. Sci. 13.—*History of Books and Libraries*. One point, first term. DR. LOMER.

A course of lectures, fully illustrated by lantern slides and exhibits, dealing with the development of the arts of record from pre-



historic times to the invention of printing in Europe. The production and care of manuscripts in classical and medieval times will be considered and a brief survey will be given of oriental manuscripts and the development of printing in China. The lectures are supplemented by outlines, readings, and an essay.

Lib. Sci. 14.—*History of Books and Libraries*. One point. Second term. DR. LOMER and SPECIAL LECTURERS.

This course, which is a continuation of the first term, will consider the invention and spread of printing in Europe; the description of incunabula; the origin and appeal of libraries in Europe; early publishing and bookselling; the great libraries and librarians of Europe and America; the making of the modern book; modern type, display, and proofreading; processes of illustration. The class periods are supplemented by outlines, readings and an essay.

Lib. Sci. 15.—*Library Publicity and Extension*. One point, first term. DR. LOMER and PROFESSOR CARTER.

The principles of publicity as applied to libraries; methods of publicity; community needs and library opportunities; exhibits; library work in connection with museums, art galleries, etc.; library advertising; reading lists; personal service; library extension; adult education; inter-library loans; travelling libraries; county service; library surveys.

Lib. Sci. 18.—*Field Work, Observation and Visits*. Two points. Second term.

As all instruction is given with a view to its application in professional service, it is essential that students have sufficient opportunity for practical work. The School affords this in three ways:

1. The problems and laboratory work involved in the technical courses provide, at the rate of two hours for every lecture, the conditions necessary for the practical application of the principles and methods taught.
2. Field work in the second term provides an opportunity for wider observation, comparison of libraries and their methods, and actual practice in the routine of library work where the pace is set by experienced workers. A programme of conducted visits to other libraries, including a week's visit to New York and vicinity, is planned for the second term as a required part of the course. This aims to give the student an opportunity to observe the practical applications of subjects taught.



3. Two weeks of practical work under supervision is planned to take place in May, in order that the student may acquire an appreciation of library work as a whole.

Lib. Sci. 20.—*College and University Libraries*. Two points, second term. DR. LOMER and SPECIAL LECTURERS.

After a historical survey of the development of College libraries showing how these differ from other libraries, the course will consider the place of the library and the librarian in university education and administration, the special needs of teaching staff and students, the principles of book selection and fund apportionment as applied to college libraries, and such special topics as departmental libraries, reference work, reserved books, graduate research, the use of the stack, inter-library loans, and instruction in the use of the library.

Lib. Sci. 22.—*Library Work and Children*. Two points, second term. PROFESSOR CARTER.

The selection of children's books and the administration of a children's room for the major part of the course, which also includes the methods of story-telling and personal library work with children. One lecture and two hours of practice work each week.

Lib. Sci. 24.—*Special Libraries*. Two points, second term. PROFESSOR CARTER and SPECIAL LECTURERS.

The difference of viewpoint and method necessary for special library work is brought out by means of a survey of the special library field. Instruction is also given in adapting general library methods to meet the problems of this type of library work.

Lib. Sci. 26.—*School Libraries*. One point, second term. MISS HIGGINS.

The organization of libraries in schools of various types is brought out by means of lectures and discussion. The relationship of libraries to modern education is always kept in view. The work of the high school library is especially considered from the standard point of its history; the present standards; types of libraries; the physical plant; financial aspects; staff qualifications, duties, etc.; co-operation with departments of the school; special problems, such as discipline, fines, etc.; and, finally, the selection of library material.

Lib. Sci. 28.—*Indexing and Filing*. One point, second term.

The principles of alphabetic, numerical, geographic, subject, and classified filing; analyses of filing conditions; central files, and organ-



ization; and the basis of choice of filing system for material to be filed; with some work in the principles of indexing; all of which is given practical application in problems.

Lib. Sci. 30.—*Canadian Government Documents*. Two points, second term, Miss HIGGINS.

The purpose of this course is to acquaint students with important reference material in the serial and special publications of the Canadian Government and with efficient methods of finding such materials by means of government catalogues and indexes. The work will consist of combined lecture and discussion periods, laboratory periods for practice in finding material, and special reports on various phases of Canadian documents. Since this work requires ability to carry on independent investigation, no student receiving less than B as a final mark for the first term of Reference Work will be permitted to register for this course.



## SPECIAL LECTURES

During the session the work of the school is supplemented by special lectures by librarians and others engaged in related activities. In recent sessions the following special lectures were delivered.

Dr. George Locke, Librarian, The Toronto Public Library, The Organizations of a Public Library System (2 lectures); Professor Ernest J. Reece, Associate Professor of Library Administration, School of Library Service, Columbia University, Foreign Documents and Libraries of New York (2 lectures); Dr. W. W. Bishop, Director of the University of Michigan Library and Library School, Important Foreign Libraries; Miss Anne Carroll More, Supervisor of Children's Work, New York Public Library, N.Y.; Children's Library Work; Mr. B. K. Sandwell, Author, Montreal, Canadian Literature; Mrs. Louise Morey Bowman, Author, Montreal, Tendencies in Modern Poetry; Mr. Frederick Philip Grove, Author of "A Search for America," Reminiscences of an Author; Mr. Edward Davison, poet, Libraries and Book of the Month Clubs; Rev. Canon James E. Fee, The Bible (2 lectures); Professor Philip J. Turner, Dept. of Architecture, McGill University, Library Planning (8 lectures); Dr. R. de Resillac Roesse, Gest Chinese Library, The Gest Chinese Library; Mr. C. B. Wwei, The Gest Chinese Library, Chinese Libraries; Miss Nancy Lee Swann, Gest Chinese Library, Chinese Language and Literature; Miss Laura A. Young, McGill University Library, Loan and Stack Work in College Libraries (2 lectures); Miss E. G. Hall, McGill University Travelling Libraries, Travelling Libraries; Miss Mary S. Saxe, Librarian, Westmount Public Library, Administration of a Small Public Library (2 lectures); Dr. C. A. Dawson, School for Social Workers, McGill University, Natural History of Montreal; Miss Joan Osborne, Librarian, Ogilvy's Limited, Departmental Store Libraries; Mr. George Long, The Bell Telephone Company, Bell Telephone Libraries; Miss Constance Wilson, Librarian, The Royal Bank of Canada, Montreal, Bank Libraries; Mr. Harry Burton of Burton's Bookstore Limited, Canadian Publishers; Professor Ramsay Traquair, Head of Department of Architecture, McGill University, Woodcuts and How they are Made; Mr. Cockburn Kyte, Librarian, Queen's University, Kingston, Ontario, English Monastic Libraries and Some English Country House Libraries; Mr. Leland Hall, Author of "Timbuctoo," etc., Timbuctoo; Mrs. M. E. Bevington, Canadian Pacific Railway, Railway Libraries; Professor F. Clarke, Department of Education, McGill University, Some Trends of Modern Education; Dr. W. W. Francis The Osler Library, McGill University, The Osler Library; Miss Maud Martin, Librarian, The Royal Bank, Bank Libraries; Dr. C. F. Wylde, The Medical Library, McGill University, Medical Libraries; Miss Sarah C. N. Bogle, Assistant Secretary, American Library Association, Librarianship as a Pro-



fession; The Very Reverend A. Carlisle, Dean of Christ Church Cathedral, The Bible: its history, The Bible: its contents; Dean P. E. Corbett, Faculty of Law, McGill University, The League of Nations; Miss Helen Haultain, League of Nations Publications; Miss Harriet E. Howe, Associate Professor, University of Chicago, History of Education for Librarianship; Miss Eileen B. Thompson, Honorary Secretary, The University Book Club, The University Book Club; Mrs. Dorothy Warren, Assistant Curator, The McCord National Museum, The McCord National Museum; Miss S. B. Wilson, Westmount Public Library, What the Small Library Can Do in Reference.



## SUMMER SESSION

### THE LIBRARY SCHOOL

The McGill University Library School will offer a six weeks' course in general library methods, beginning on Monday, July 6, and ending on Friday, August 14, 1931.

The course is designed to prepare librarians for small libraries or assistants for larger libraries, and it fulfils the requirements and embodies the course of training approved by the Board of Education for Librarianship of the American Library Association, by which the Summer Course has been accredited.

The Library School, the oldest of its kind in Canada, will hold its sessions in a portion of the University Library which has been equipped for the purpose and includes the office of the School, a lecture room, with a stereopticon and refractoscope, and two study rooms for students, equipped with individual desks. In addition to the Library School collection of books, students have access to the stacks of the University Library, a fine limestone building of Romanesque style, situated on the campus and containing, with the departmental libraries, over 411,000 volumes. There is a Library Museum containing an exhibition illustrating the historical development of the book; and special exhibits are arranged in connection with the course.

### COURSE OF STUDY

NOTE:—All students are required to take courses 1 to 8 inclusive, and, in addition, either Group A (9, 10, 11, 12) or Group B (13,14).

#### 1. Cataloguing, Classification, and Subject Headings. 30 Lectures.

A simplified course aiming to meet the needs of the school and the small public library. Instruction in the principles of dictionary cataloguing is given by means of lectures and supervised laboratory work. The assigning of subject headings is also taught. The fundamental principles of classification form a basis for the practical application of the Dewey Decimal and Cutter Expansive systems. Some attention is given to the ordering and use of Library of Congress printed catalogue cards, the assigning of book-numbers from the Cutter-Sanborn author tables, shelf-listing, alphabetizing and filing. These various processes will be correlated in order to give the students practice in planning the full cataloguing of a book. Students who can do so are urged to type their catalogue cards.

Two fifty-minute laboratory periods per lecture hour are a required part of the course.



**2. Reference Work. 12 Lectures.**

The work of the reference course is the study and use of the outstanding reference books. Lectures are given and practical problems assigned. The consideration covers such subjects as dictionaries, encyclopedias, periodical indexes, biography, history, geography, literature, etc.

**3. Book Selection. 12 Lectures.**

Approach to this subject is made through the underlying principles of selection and a consideration of various classes of books (travel, history, biography, poetry, drama, and fiction). Practice in using printed aids to assist selection, in writing book-notes, and selecting books for different types of readers, is given. Lectures, reports, problems.

**4. Subject Bibliography. 4 Lectures.**

A general consideration of the more important Canadian, English, French, and American publications in this field which are used in the average small public library. Correct bibliographic form is emphasized in the compilation of a list of books and periodical articles on some particular subject.

**5. Periodicals, Serials, and Government Publications. 4 Lectures.**

The recording and arrangement of periodicals and serials will be explained, as well as the equipment and management of a periodical reading room; followed by an elementary consideration of the chief government publications of Canada, Great Britain, and the United States; how to obtain, arrange, and use them.

**6. Organization and Administration Libraries. 10 Lectures.**

An elementary consideration of administration from the point of view of the small library, including committees and relations of trustees and librarians, the business and ethics of librarianship, the supervision of buildings and staff, the preparation of annual budgets, statistics and reports, and library exhibits.

These lectures are supplemented by a consideration of special phases of library work planned as an introduction to aspects of library management which are considered more in detail in the sessional course.



**7. Trade Bibliography and Ordering. 4 Lectures.**

Instruction is given in the use of the ordinary bibliographic equipment necessary in ordering books. The making of order cards and the routine of ordering are explained. Practical problems are assigned.

**8. Loans and Stack Administration. 2 Lectures.**

A consideration of typical charging systems with their application to the needs of the small library and to school and college libraries. The arrangement of books in the stacks, checking the shelves, and the rearrangements of classes will also be considered, as well as the general care of books.

**GROUP A****9. Library Buildings and Equipment. 2 Lectures.**

A consideration of the fundamental principles of the construction of small libraries, with special attention to heating, ventilation, lighting, and the arrangement of the stack and a consideration of the essential equipment of a small library.

**10. Binding and Repairs. 2 Lectures.**

The principal materials and processes of binding and repairing will be considered from the point of view of their practical application and cost. The routine of the binding department will also be considered and supplemented by a visit to the University Bindery.

**11. Publicity and Extension. 2 Lectures.**

Methods of publicity as aids to help advertise the value of the library will be stressed, and ways and means of extending library service will be considered. The assignments will consist of readings.

**12. Special Libraries. 6 Lectures.**

The organization of special libraries, their relation to general library processes and routine, and their individual differences and opportunities.

**GROUP B****13. Children's Literature and Libraries. 6 Lectures.**

Principles of book selection as applied to children of various ages and interests; story-telling; administration of the children's room.



#### 14. School Libraries. 6 Lectures.

Place and function of the school library in relation to the curriculum; the high school library; instruction of students in the use of the library; standards for the school library, and its equipment.

#### EXCURSIONS

Saturday mornings will be devoted to the following excursions, which are a required part of the course: (1) Art Association of Montreal, 679 Sherbrooke Street West; (2) Fraser Institute Free Public Library, 359 Dorchester Street West; (3) Mechanics' Institute of Montreal, 890 Atwater Avenue; (4) Public Library of the City of Montreal, 630 Sherbrooke Street East; (5) Westmount Public Library, Westmount Park.

#### APPLICATION FOR ADMISSION

As the course is limited in number of students, early application is desirable.

Applicants for admission to the course should be high school graduates with aptitude and personal qualifications for library work and should give evidence of ability to pursue profitably the course. Assistants already engaged in library work or applicants with a definite appointment to a library position are preferred. The Library School gives a certificate to those who have successfully completed the course, but this implies no university credit, and the School does not guarantee positions to students.

#### FEES

The fee for the course is \$60, payable in advance at the Bursar's Office.

Students may rent portable typewriters for \$2 for the session and may obtain necessary library supplies from the Secretary of the School, who will also, on request, furnish a list of approved boarding houses.

All inquiries and correspondence should be addressed to:

THE DIRECTOR, McGill University Library School, 3459 McTavish Street, Montreal, Canada.

#### FRENCH SUMMER SCHOOL

A five weeks course in French is offered during the summer, commencing about June 26th. Detailed information may be obtained from the Secretary, French Summer School, Arts Building.



## DEPARTMENT OF EXTRA-MURAL RELATIONS

DIRECTOR:—WILFRID BOVEY.

SECRETARY:—MARJORIE M. HODGE.

The Department of Extra-Mural Relations carries on work in adult education. It is concerned with lectures and study for persons who are not registered in any Faculty or Department and are not aiming at academic credit. Its object is to bring the community and the University into closer touch one with the other, and to achieve this end it functions largely outside the University walls.

### LYCEUM LECTURES

Lyceum Lectures are offered in the Province of Quebec and neighbouring districts. Most of these lectures are of a popular nature; a few are intended for professional audiences already acquainted with the technical nature of the subject. Details are given on pages 614 to 629. Societies, clubs and other groups may arrange for single lectures or series of separate lectures of general interest.

### COURSES

Community groups wishing to arrange courses of study for non-academic audiences are invited to avail themselves of the services of the Department.

### COMMERCIAL COURSES

An extensive series of Commercial Courses will be given during the session of 1931-1932 in co-operation with the Montreal Board of Trade, the Chartered Institute of Secretaries, the Canadian Society of Cost Accountants and the General Accountants' Association. These courses prepare students for the Board of Trade Diploma and for the diplomas, etc., of the various co-operating associations. A separate announcement will be sent on request. Special arrangements are in progress to accommodate students at Shawinigan Falls or Three Rivers.

### SETS OF LANTERN SLIDES

In co-operation with the University Library, the Department loans sets of slides accompanied by written lectures free of charge. These are of particular use in towns which by reason of distance find it difficult to obtain an adequate number of speakers. On examination of



the list of these illustrated lectures on pages 630 and 631 it will be noted that each lecture is complete in itself, but that it is possible to build up courses on such subjects as Canadian Geography, Canadian Economics, Canadian History, The British Empire.

### GRAMOPHONE RECORDS

A library of gramophone records for use under the auspices of local Women's Institutes in country schools is maintained at the office of the Superintendent, Quebec Women's Institutes, Macdonald College, P.Q., to whom applications should be made.

### RADIO

A number of radio lectures will be given during the season. Any listeners interested will receive information as to programmes on receipt of a postcard.

The value of research in all subjects is now generally recognized. Whether the question involved be some technical difficulty in manufacturing or a problem of employment or hygiene, the staff of the University is ready and willing to deal with it and to give all the assistance possible. It is one of the duties of the Department of Extra-Mural Relations to promote such co-operation and to put inquirers in touch with the proper authorities at the University.



## I. LYCEUM LECTURES

### General

Local committees, schools or other authorities are asked to select subjects from the list below and indicate the day or days on which they wish the lectures to take place. Lectures will be provided during the periods from October 14th to December 15th, and January 6th to March 30th.

### Outside Montreal

Local committees outside Montreal are called upon to provide accommodation and entertainment for lecturers and to pay railway expenses and taxi fares to and from stations. The University pays the lecturers' fees.

In the case of illustrated lectures, if local committees cannot provide a lantern, one will be furnished at an additional fee of \$2.00. Local committees are expected to provide operators.

When a soloist is provided for musical lectures, local committees are called upon to pay the travelling expenses of the soloist *and also his fee.*

### In Montreal and Environs

In Montreal, Westmount, Outremont, Lachine, Verdun, Montreal West, Mount Royal, Montreal North and St. Lambert committees are called upon to pay the University a fee of \$15 per lecture as a contribution to the general expenses of the Department.

A lantern and operator are supplied at an additional charge of \$5.00. Lantern only is supplied at a charge of \$2.00.

### Accounts

Co-operating committees will receive a bill for expenses from the Secretary of the Department after a lecture has taken place.

Cheques are to be made payable to McGill University and forwarded to the Secretary of the Department of Extra-Mural Relations.

Local committees outside Montreal are asked to settle accommodation expenses direct with hotels.

### Lecturers and Subjects

MAUDE E. SEYMOUR ABBOTT, B.A., M.D., L.R.C.P. & S., Assistant Professor of Medical Research and Curator of the Medical Museum.

1. Arrest of Growth and Congenital Heart Disease (Illustrated).



2. The Origin and Subsequent Progress of Canadian Medicine in the Storied Province of Quebec (Illustrated).
3. Sir William Osler, his Life and Writings, with especial reference to his Canadian Period (Illustrated).
4. Great Names in the History of Nursing: (a) in the Early Christian Church; (b) in the Renaissance and Post-Renaissance Periods (Illustrated).
5. History of the Order of St. John of Jerusalem and its English Langue (Illustrated).
6. Florence Nightingale and the History of Nursing (Illustrated).
7. Florence Nightingale as seen in her Portraits (Illustrated).
8. Travelogue in Italy and Dalmatia (Illustrated).

E. R. ADAIR, M.A., Associate Professor of History.

1. The Spanish Pyrenees (Illustrated).
2. Tramping in Catalonia and Andorra (Illustrated).
3. Corsica, the Birthplace of Napoleon (Illustrated).
4. French Canadian Art (Illustrated).
5. Canadian History in the McCord Museum (Illustrated).
6. Spain under King, Dictator and Republic.
7. The Importance of the Seventeenth Century in the History of England (Illustrated).

WILLIAM HOWARD BARNES, M.Sc., Ph.D., Lecturer in Chemistry.

1. Alchemy (Illustrated).

The origin, growth and decline of alchemical ideas. The aims and objects of the alchemists. Their ideas of matter and methods of experiment. The search for the Philosopher's Stone, the Elixir of Life and the Universal Solvent. The contributions of alchemy to the development of chemistry.

2. Hidden Mysteries of Nature Revealed by X-rays (Illustrated).

The nature of X-rays and their use in determining the structure of matter. Crystals and how they are built up; diamond, graphite, topaz, common salt, quartz, ice etc. Applications of X-ray methods to the study of interior of the human body; to locating flaws in castings; to the investigation of metals and alloys; etc.

D. MAUD BELLIS, Lecturer in Arts, Macdonald College.

1. The World's Painters (Illustrated).
2. Art in Everyday Life (Illustrated).



WILFRID BOVEY, O.B.E., LL.B., F.C.I.S., Director of Extra-Mural Relations.

1. This Canada (Illustrated).  
Some unconventional pictures and some conventional information.
2. A Canadian Wonderland (Illustrated).  
The Lake Country of British Columbia.
3. On the Track of Cartier (Illustrated).  
The Gulf and River of St. Lawrence.
4. Romances of Canadian History.
5. Quebec To-day, with a Glance at Yesterday (Illustrated).  
History and Economics.
6. Country and City.  
Agricultural Canada needs more co-operation and will repay it well.
7. The Last Year of the Great War.
8. Lorna Doone and Westward Ho—Devon Books and Devon Roads (Illustrated).
9. The Growth of the Canadian Pacific—a Jubilee Record (Illustrated).

JAMES WINFRED BRIDGES, B.A., M.A., Ph.D., Professor of Abnormal Psychology.

1. Environmental Factors in Mental Health.  
What is inherited? The influence of environment in the development of intellect, temperament and character. Environmental factors as causes of mental defect and disease. The healthy environment.
2. Psychoanalysis as a contribution to the understanding of human nature. The meaning of the unconscious, mental conflict, repression, over-compensation and sublimation. Illustrations from every-day life. Significance for mental health.
3. The Meaning of Dreams.  
Critical discussion of various theories. Dream symbolism. Relations of dreams to reverie, to poetry, and to mental diseases. The study of dreams as a help to self-knowledge.
4. Suggestion and Hypnosis.  
Suggestion and suggestibility in daily life, in mental disease and in the hypnotic state. Fact and fancy regarding hypnosis.



## 5. Personality, Normal and Abnormal.

The elements of personality and their organization. Intellect, temperament and character. Types of personality. Imbalance dissociation and other abnormalities of personality.

KATHARINE MAY BANHAM BRIDGES, B.Sc., M.A., Assistant Professor of Psychology.

1. Social and Emotional Development in Nursery School Children (Illustrated).

C. A. BRODIE BROCKWELL, M.A., Professor of Hebrew and Semitic Languages and Chairman of the Department of Oriental Languages.

1. Gold from the Golden Age, or, High Water Marks in Ancient (Eastern) Civilization.

HOWARD DAYNE BRUNT, B.A., Ph.D., Head of the Department of English at Macdonald College.

1. Heroes I Hate.
2. Abstraction and Personifications: Artistic value; social and political dangers.
3. Biography.
4. Myth, Legend, Tradition, Folklore.
5. Drama: child of the church (Illustrated).
6. Canadian Literature.
7. The Poets-Laureate.
8. Ten Great Books.
9. Memoirs and Memoirs-Writers.
10. Arthurian Legends (Illustrated).
11. The Thirteenth Century—Pivotal (Illustrated).
12. What a Reader should know about Architecture (Illustrated).
13. Reading and Thinking.
14. Some Modern Poets.
15. Satire in Literature.
16. What, then is Culture?
17. The Inn in English Literature.

Lectures outside Montreal on Friday or Saturday nights only.

THOMAS GORDON BUNTING, B.S.A., Professor of Horticulture, Macdonald College.

1. Canadian Foods in the Diet, with special reference to fresh and preserved fruits and vegetables.



2. The Breeding and Production of New Plants (Illustrated).
3. The City Home Gardens and Ornamental Plants (Illustrated).
4. The Home Fruit and Vegetable Garden (Illustrated).

WILLIAM CALDWELL, D.Sc., Emeritus Professor of Moral Philosophy.

1. The Place and the Importance of Canada To-day.
2. Present Conditions in Europe. Is there danger ahead?
3. Present Conditions in Great Britain.
4. Great Men I have met.
5. Recent Experience in Continental Europe and in Britain.
6. Some of the World's Greatest Thinkers.
7. Philosophy in Different Countries and the Story of Philosophy Generally.
8. Experiences in the League of Nations at Geneva.
9. The Story and the Importance of the New Central Europe (Illustrated).
10. Poland and Her Story and the Truth about Poland (Illustrated).

MRS. MARY DUNCAN CARTER, Ph.B., B.L.S., Assistant Professor of Library Administration and Assistant Director of the Library School.

1. The Library as a Factor in the Assimilation of Immigrants in Canada.
2. The Library and the Community.
3. Why Children's Libraries (Illustrated).
4. How to choose Books.
5. The Place of Books in the Life of the Modern Child.

FRANK PENTLAND CHAMBERS, M.A., Assistant Professor of Architecture.

1. The Art of the Middle Ages: Mediæval authors on the arts and architecture of their time. An attempt to answer the question: What had the Middle Ages to say of its own art? (Illustrated).
2. Leonardo da Vinci: His life and work (Illustrated).
3. Modern Painting: An attempt to describe the origin, and evaluate the achievement of recent movements in painting. (Illustrated with lantern slides and colour prints.)
4. Madness in Art and Artists: An account of abnormality in the modern artist, and its effect upon his work and usefulness in present-day life (Illustrated).



THOMAS H. CLARK, A.B., A.M., Ph.D., Logan Professor of Palæontology.

1. Montreal through the Geological Ages (Illustrated by diagrams).

A presentation of the series of events which has, through countless millions of years, contributed to the making of the site of our city.

2. Man's Life on Earth (Illustrated).

A consideration of the origin, background, progress and future of man, with special reference to prehistoric races.

3. The Life and Achievements of Josiah Wedgwood, Master Potter (Illustrated).

Wedgwood was responsible during the eighteenth century for lifting the ceramic industry in England from a state scarcely deserving the name to a position of international pre-eminence. His life story places him among the giants of an heroic age.

4. The Ice Age in Canada (Illustrated).

For most of the past million of years Canada has been covered by a blanket of glacial ice, the origin, growth and final disappearance of which form a story whose events have controlled the finding and exploiting of most of Canada's natural resources. (See note to next lecture.)

5. The Geological Story of the Great Lakes and Niagara Falls (Illustrated).

These are among the most recent, geologically speaking, additions to Canadian scenery. (NOTE: This lecture may be combined with the preceding, and both given together in an abbreviated form.)

BROOKE CLAXTON, B.C.L., Lecturer in Commercial Law and Insurance.

1. History of the Privy Council.
2. The Privy Council and Canada.
3. The British North America Act.
4. The Conflict between the Dominion and the Provinces.
5. How Canada is governed.

E. W. CRAMPTON, M.Sc., Assistant Professor of Animal Husbandry, Macdonald College.

1. Heredity, Nature's Game of Chance (Illustrated with slides and charts).

A popular description of the mechanics of heredity. Illustrative examples involve human characters.



## 2. Heredity in Livestock (Illustrated with slides and charts).

A popular discussion of the heredity of such characters as colour, size, fertility, sterility, milk production, disease, etc.

HAROLD B. CUSHING, B.A., M.D., C.M., Clinical Professor of Pediatrics.

## 1. Control of Contagious Diseases (Illustrated).

A. VIBERT DOUGLAS, M.B.E., M.Sc., Ph.D., F.R.A.S., Lecturer in Astrophysics.

## 1. Astronomy Ancient and Modern (Illustrated).

## 2. Telescopes and the Universe They Reveal (Illustrated).

## 3. From Astrology to Astronomy (Illustrated).

## 4. Atoms, Stars and Starlight (Illustrated).

## 5. Orion and the Pleiades (Illustrated).

The following are specially suitable for children.

## 1. Planets, Comets and Shooting Stars (Illustrated).

## 2. Telescopes and Giant Stars (Illustrated).

ARTHUR STEWART EVE, C.B.E., M.A. (Cantab.), D.Sc., F.R.S.C., F.R.S., Macdonald Professor of Physics, Director of the Department of Physics and Dean of the Faculty of Graduate Studies.

## 1. Flying and Flight (Illustrated with slides and experiments).

## 2. Northern Lights (Illustrated with slides and experiments).

## 3. The Weather (Illustrated with slides and experiments).

R. DeL. FRENCH, B.Sc., C.E., Mem. Am. Soc. C.E., Professor of Highway and Municipal Engineering.

## 1. The Engineer and the Public (Illustrated).

## 2. The Romance of the Post (Illustrated).

## 3. James Brooke—A Romantic Englishman (Illustrated).

RONALD DARNLEY GIBBS, B.Sc. (Lond.) M.Sc., Lecturer in Botany.

## 1. Botanizing by camera in North America from Mexico to the Canadian Rockies (Illustrated, many coloured slides).

## 2. The Sea Shore (Illustrated).

GORDON BOND GLASSCO, B.Sc., Executive Secretary of The Graduates' Society of McGill University.

## 1. Oil: Petroleum, where we get it and what we do with it.



ALASTAIR A. GOWAN, C.A., Lecturer in Accountancy.

1. Investigations.

WILLIAM H. HATCHER, M.Sc., Ph.D., Associate Professor of Chemistry.  
Lectures in the field of Chemistry as requested.

LOUIS D'HAUTESERVE, B. ès L. and Ph. (Paris), M.A. (McGill), Ing.  
E.F.M. and ML. (Paris).

1. Use and Working of the Artillery Fuses.
2. Morocco, North and South (Illustrated).

MYRTLE HAYWARD, B.Sc., M.A., Lecturer in Educational Methods and  
in Foods and Cookery.

1. Vitamins for Health.

#### Demonstrations

1. Saving the Penny—Use of left-over foods.\*
2. Canadian Apples.\*
3. Springtime Tonic—Salads.
4. A Variety of Tea Biscuits.\*
5. Sandwiches for Various Occasions.

N.B.—For the demonstrations the club or society will have to  
provide a work table, the utensils, and dishes, the necessary  
food; also a stove for cooking of those starred.

DOROTHY ALICE HENEKER, LL.B., B.C.L., A.R.C.M.

1. Some Impressions of Soviet Russia (Illustrated).
2. A Tour through the Scandinavian Countries, Norway, Sweden  
and Finland (Illustrated).
3. Glimpses of Picturesque Holland (Illustrated).
4. The Romance and History and Romance of the Seignior of  
Montreal (Illustrated).
5. Seigniorial Days in Canada (Illustrated).
6. The Life and Times of Louis Hebert, First Canadian Seignior.
7. Industrial Development in Canada under the French Regime,  
its History and Romance.
8. The Pioneer Women of New France (Illustrated).
9. Child Labour Laws of Canada.



10. The History of Woman Suffrage in the Province of Quebec.
11. What is meant by Town Planning? (Illustrated).

GEORGE HUNTER, C.A., Lecturer in Accountancy.

1. Income Tax. Two lectures.

C. LEONARD HUSKINS, Ph.D., Professor of Genetics.

1. Recent developments in experimental evolution (Illustrated).  
A fairly advanced lecture, presupposing some general knowledge of evolution.
2. Crime as Fate (Illustrated).  
Deals with the hereditary factor in criminality.
3. The Creation of New Plants (Illustrated).  
An outline of the significance of chromosomes in plant breeding for agricultural or horticultural purposes.
4. Heredity in Man (Illustrated).
5. The Determination and Inheritance of Sex in Plants, Animals and Man (Illustrated).
6. The Physical Basis of Heredity in Plants, Animals and Man (Illustrated).
7. The Origin of a Plant which makes Land (Illustrated).  
An account of a new species of grass now used in reclaiming land from the sea, especially in Holland, and the way in which it arose.

KIANG KANG-HU, Ph.D., Professor of Chinese Studies.

1. Chinese History in Sixty Minutes.
2. The Chinese Empire and Its Civilization.
3. Great Chinese Teachers and Their Teachings.
4. Confucius as a Philosopher.
5. Buddhism and Its Various Schools in China and Japan.
6. Taoism and Its Founders.
7. Chinese Contributions to Natural Science.
8. Governmental Systems of the Feudalist China, of the Empire and of the Republic.
9. Chinese Educational Systems, Ancient and Modern.
10. The Clan System of the Orient.
11. The Position of Women in China.
12. Evolution of Chinese Literature and Language.
13. The Pictorial Art of the Orient.



14. Some of the World's Greatest Publications.
  15. Chinese Studies in Western Universities.
  16. Problems of Present Day China.
  17. China under the Conflicting Influences of Imperialism and Communism.
  18. The Struggle of China Since 1900.
  19. The Future of Chinese Civilization.
- Also series of from three to fifteen lectures by arrangement.

DAVID A. KEYS, M.A. (Toronto), Ph.D. (Harvard), Ph.D. (Cantab.), F.R.S.C., Professor of Physics.

1. Television and the Transmission of Pictures by Wireless (Illustrated by slides and experiments).
2. Hunting the Unseen, or, Modern Methods of locating buried Mineral Deposits (Illustrated by slides and experiments).

JOHN ERNEST LATTIMER, B.S.A., M.Sc., Ph.D. (Wisconsin), Professor of Agricultural Economics, Macdonald College.

1. The Vagaries of Prices (Illustrated by charts).
2. Penalizing the Production of Plenty (Illustrated with charts).
3. Why Distribution Costs increase.
4. Do High Prices cause Unemployment?

L. M. LINDSAY, M.D., Lecturer in Pediatrics.

1. Diseases of the Newborn.
2. Diarrhoeal Disorders of Infancy.
3. Tuberculosis of Childhood (Illustrated).
4. Rheumatic Infections (Illustrated).
5. Deficiency Diseases (Illustrated).

FRANCIS ERNEST LLOYD, M.A. (Princeton), F.R.S.C., F.L.S., Macdonald Professor of Botany.

1. Desert Vegetation of North America (Coloured illustrations).
2. A Naturalist Tour of South and East Africa (Coloured illustrations).
3. Egypt and Palestine (Coloured illustrations).
4. The Mouse Trap Plant (Lantern slides and films).
5. Carnivorous Plants (Lantern slides and films).
6. A Water Vampire (Lantern slides and films).



7. Conjugation in Spirogyra (Lantern slides and films).
8. Vegetation of North America (Illustrated).
9. India Rubber.
10. Costa Rica and its Products (Illustrated).
11. Papyrus.

G. R. LOMER, M.A., Ph.D., University Librarian, Director of the Library School and Professor of Library Administration.

1. The Book in Egyptian Times (Illustrated).
2. Babylonian and Assyrian Records (Illustrated).
3. The Books of the Greeks and Romans (Illustrated).
4. Medieval Books (2 lectures) (Illustrated).
5. Medieval Libraries (Illustrated).
6. History of Paper and Books in China (Illustrated).
7. The Beginnings of Printing in Europe (Illustrated).
8. How a Book is made (Illustrated).  
Available in Montreal only.

T. W. L. MACDERMOT, M.A., Assistant Professor of History.  
Lectures on historical topics as requested.

LT.-COL. NEIL BRUCE MACLEAN, D.S.O., M.A. (Toronto), Ph.D. (Chicago), Professor of Applied Mathematics and Joint Chairman of the Department.

1. The Solar System and Its Origin (Illustrated).
2. The Island Universes—the Nebulæ (Illustrated).
3. Milestones in Mathematics.
4. With the British Artillery in France and Flanders (Illustrated).

PAUL FLETCHER McCULLAGH, M.A., Lecturer in Classics.

1. Life in Roman Britain (Illustrated).
2. The Cathedrals of France, their Sculpture and Symbolism (Illustrated).
3. The Last Days of Pompeii (Illustrated).
4. Three Weeks in a Third Class Spanish Railway Coach (Illustrated).
5. A Cycling Tour of England (Illustrated).
6. Wandering in the Eastern Mediterranean (Illustrated).
7. A Journey across Morocco, Algeria and Tunisia (Illustrated).



8. Mediterranean Civilization in the Days of Early Christianity (Illustrated).
9. Exploring the Roman Cities of North Africa (Illustrated).
10. Seeing Belgium by Bicycle (Illustrated).
11. A Bicycle Tour through France (Illustrated).
12. The Charm of England's Cathedrals (Illustrated).
13. Greece, Past and Present (Illustrated).
14. Three Creative Periods of European History (Illustrated).  
Athens in the fifth century B.C., the Roman Empire, second century A.D., and the Gothic Achievement of the thirteenth century.

ROBERT REGINALD MCKIBBIN, Ph.D., Assistant Professor of Agricultural Chemistry, Macdonald College.

1. The Life Layer of the World (Illustrated).
2. Some Geological Facts about Quebec Province (Illustrated).

N. W. MORTON, M.A., Department of English.

1. The Quebec Labrador: Lives and customs of the fishermen on the north shore of the St. Lawrence.

GORDON A. NEILSON, Demonstrator in Architecture.

1. Wanderings in Eastern Quebec (Illustrated).
2. L'Architecture de la Province de Québec avant la Confédération (1, 2 ou 3 conférences) (Illustré).
3. Les Arts Domestiques (Illustré).

JOHN APPLETON NUTTER, B.A., M.D., C.M., F.A.C.S., F.R.C.S. (Can.), Clinical Professor of Orthopedic Surgery.

1. Feet (Illustrated).
2. Chronic Rheumatism and Its Treatment.
3. Joint Tuberculosis and Its Treatment.
4. Backache and Sciatica.
5. Paralysis of Childhood and Its Treatment.
6. Congenital Deformities and Their Treatment.
7. Sonisburg (Illustrated).

H. E. REILLEY, M.Sc., Associate Professor of Physics.

1. The Discovery and Application of X-rays (Slides and Experiments).



2. Liquid Air (Slides and Experiments).
3. Good Acoustics in Home, School, Church and Hospital (Slides and Experiments).
4. Short Cuts in Simple Mathematics (Entertaining).

CHARLES B. RITTENHOUSE, B.A., Assistant in English.

1. Negro Spirituals: A survey of different types of negro folk-songs (Illustrated by vocal and gramophone selections).

HAROLD JAMES ROAST, F.C.S., F.C.I.C., Special Lecturer in Metallurgy.

1. Are Metals Alive? (Illustrated with photomicrographic slides).
2. Getting acquainted with the Metals we meet.  
An imaginary trip around any large city. What the common metal objects are made of, etc.

A. NORMAN SHAW, M.A. (Cantab.), D.Sc., F.R.S.C., Professor of Physics.

1. Rumford, Davy and Joule (Illustrated).
2. The Mysterious Universe (Illustrated).

JOHN FERGUSON SNELL, B.A., Ph.D. (Cornell), F.A.A.S., F.C.I.C., Professor of Chemistry, Macdonald College.

1. The Maple Sugar Industry (Slides and a film).

ALICE M. STICKWOOD, B.S., M.A., Lecturer in Dietetics and Institution Administration, Macdonald College.

1. Foods for Health and Happiness.
2. Food Selection.
3. Well-balanced Meals.
4. The Best Use of Foods.

E. FABRE SURVEYER, B.A., B.C.L., LL.L., Professor of Civil Procedure.

1. Maria Chapdelaine.
2. Canada's Rise as a Nation.
3. The First Parliamentary Elections in Lower Canada.



4. James McGill.
5. Joseph Frobisher.
6. William Grant.
7. Philippe de Rocheblanc.
8. Pierre A. de Bonne.
9. Jean-Antoine Panet.
10. Adam Mabane. From Surgeon's mate to Chief Justice.
11. Husband and Wife in Louisiana and Quebec.
12. Dickens in France.
13. The Struggle for English Commercial Law in Lower Canada.
14. Notes on Montrealer's First Curlers.
15. Citizenship.
16. "Auld Robin Gray" (Preferably in French—Singer required).

WILLIAM D. TAIT, B.A. (Dal.), M.A. and Ph.D. (Harvard), Professor of Psychology, Chairman of the Department and Director of the Psychological Laboratory.

Subjects and dates by special arrangement.

Short courses by special arrangement.

B. W. TAYLOR, M.Sc., Biologist and Superintendent of Hatcheries in the Department of Colonization, Game and Fisheries, Province of Quebec.

Lectures on the Inland Lakes and Fisheries.

ROBERT RANDOLPH THOMPSON, M.C., V.D., A.C.A., (England and Wales), C.A. (Canada), Professor of Accountancy, Business Organization and Scientific Management.

1. Moslem Egypt (Illustrated).
2. Saracenic Art in Egypt (Illustrated).
3. Gallipoli Campaign 1915/16 (Illustrated).
4. Allanby's Campaign for the Capture of Jerusalem, 1917 (Illustrated).
5. Tales and Legends of the Anglo-Scottish Border.

LESSLIE R. THOMPSON, B.A.Sc., M.E.I.C., M.Am.Soc.C.E., Professor of Fuel Engineering and Special Lecturer in Structural Engineering.

1. Some Notable Small Boat Voyages (Illustrated).
2. Sailing Ships and Their Development (Illustrated).



3. The Coal Problem of Canada (Illustrated).
4. What's in a Lump of Coal? (Illustrated).
5. Ships and Shanties (Illustrated by slides, music and models).
6. The Coking of Coal (Illustrated by slides and simple experiments when facilities are available).
7. The Canadian Fuel Problem (Illustrated).

NOTE.—In lecture No. 5 Professor Thomson will be assisted by Mr. Jack Howell as soloist. Local committees are called upon to pay the travelling expenses of the soloist and lecturer and an additional sum of \$10 covering the soloist's fee.

PHILIP J. TURNER, F.R.I.B.A., F.R.A.I.C., Special Lecturer in Architecture.

1. Some Famous Abbeys of England (Illustrated).
2. Glastonbury Abbey: The Birthplace of British Christianity (Illustrated).
3. The Romance of the Old English Inn (Illustrated).
4. Inn Signs and Their Story (Illustrated).
5. The English Parish Church: England's Finest and Most Characteristic Contribution to Medieval Art (Illustrated).
6. English Country Life and Work (Illustrated).
7. Liverpool Cathedral 1880-1931 (Illustrated).
8. Man and His Buildings (Illustrated).

The effect of wars, religion, commerce and science upon architecture.

S. ERNEST WHITNALL, M.A., M.D., B.Ch. (Oxon.), M.R.C.S. (Eng.), L.R.C.P. (Lond.), Robert Reford Professor of Anatomy.

1. Identification and Finger-Prints (Illustrated).
2. The Human Brain: its evolution and use (Illustrated).

W. D. WOODHEAD, Ph.D., Hiram Mills Professor of Classics and Chairman of the Department.

1. The Island of Crete (Illustrated).
2. Delphi and Olympia, Two Famous Sites in Greek History (Illustrated).
3. A Glimpse of Greece (Illustrated).
4. Greek Tragic Drama.



5. Greek Comic Drama.
6. Women in Greek Life and Literature.
7. Plato as a Literary Artist.
8. Homer.
9. Charles Lamb.



## II. ILLUSTRATED LECTURES

The University is prepared to supply sets of slides accompanied by written lectures to teachers and others who may wish to deliver illustrated addresses.

The lectures are all up-to-date, most of them are new.

Lecturers wishing to make use of this service are requested to give notice as early as possible. It is advisable for them to obtain the slides and addresses at least three days in advance of the lecture date in order to familiarize themselves with the material. The addresses may be used either verbatim or as a guide; lecturers are under no obligation to deliver them as written.

Application is to be made on the printed form supplied with this announcement, and especial attention is directed to the rules and undertaking forming part of the application.

### Geography and Travel

- A. 1. Across Canada.
- A. 2. Alberta.
- A. 3. Canada—Agricultural lands and development.  
" Coast to coast.
- A. 5. Canadian scenery and recreation.
- A. 6. The new Northwest and the Arctic islands.
- A. 7. The newer commercial Canada.
- A. 8. Pulp and paper industry of Canada.
- A. 9. Quebec.
- A. 10. The Rockies and the West Coast.
- A. 11. The St. Lawrence River.
- A. 12. Saskatchewan.
- A. 13. Africa.
- A. 14. Bermuda.
- A. 15. The British Empire.
- A. 16. Czecho-Slovakia.
- A. 17. Devon and Dartmoor.
- A. 18. Egypt.
- A. 19. India Part 1.
- A. 20. India Part 2.
- A. 21. Italy.
- A. 22. Jamaica.



- A. 23. Mesopotamia.
- A. 24. Nassau.
- A. 25. North England and the Midlands.
- A. 26. Paris.
- A. 27. South and West England.
- A. 28. South America.
- A. 29. Turkey Part 1.
- A. 30. Turkey Part 2.
- A. 31. The Foundations and Life of Modern Egypt.

**History**

- B. 1. Canadian History Part 1.
  - B. 2. " " Part 2.
  - B. 3. " " Part 3.
  - B. 4. " " Part 4.
- } can be used in eight parts.
- B. 5. France—History.
  - B. 6. The spacious days of good Queen Bess.
  - B. 7. Quebec—past and present.
  - B. 8. Other Days in Canada.
  - B. 9. Some Men and Events in Canadian History.

**Science**

- C. 1. Astronomy.
- C. 2. Story of the Great Lakes.

**Natural History**

- D. 1. Birds of North America.
- D. 2. Canadian animals.
- D. 3. Canadian Wild Flowers.
- D. 4. Landscape gardening.
- D. 5. Mosquitos.

**Religious Study**

- E. 1. The Bible.
- E. 2. Life of St. Paul.

**Art**

- F. 1. Saracenic Art in Egypt.



## MACDONALD COLLEGE

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### FOUNDATION AND PURPOSE

Macdonald College, which is incorporated with McGill University, was founded, erected, equipped and endowed by the late Sir William C. Macdonald for the following among other purposes:—

(1) The advancement of education; the carrying on of research work and investigation and the dissemination of knowledge; all with particular regard to the interest and needs of the population in rural districts.

(2) To provide suitable and effective training for teachers, and especially for those whose work will directly affect education in schools in rural districts.

### SITUATION AND EXTENT

The College occupies a beautiful site, overlooking the Ottawa River at Ste. Anne de Bellevue, Que., twenty miles west of Montreal. The main lines of the Canadian National and of the Canadian Pacific railways pass through the property, and the stations of both railways are within its boundaries.

The College property comprises 786 acres, and has been arranged into four main areas, viz.: (1) the campus, with lawn and recreation fields for students of both sexes; (2) the experimental grounds, with plots for illustration and research in grains, grasses, and other farm crops; (3) the horticulture and poultry departments; and (4) the stock farm.

### THE GENERAL ORGANIZATION

The College is divided into three schools:—

(1) **The School of Agriculture**, which aims to provide a theoretical and practical training in the several branches of agriculture.

(2) **The School for Teachers**, which offers a comprehensive and thoroughly practical training in the art and science of teaching.

(3) **The School of Household Science**, which gives young women such training as will make for the improvement and greater enjoyment of home life and instruction in professional work in household and institutional superintendence and management.



## ENTRANCE REQUIREMENTS

*School of Agriculture.*

See page 85.

*School for Teachers.*

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Education for the Province of Quebec will be admitted under conditions prescribed by that body, particulars concerning which are given in detail in the Announcement of Macdonald College.

*School of Household Science.*

All candidates for admission:—

1. (a) To the homemaker course, must have entered their eighteenth year and completed grade VII of the Province of Quebec, or its equivalent.
- (b) To the institution administration course, must have entered their twenty-first year, completed grade XI (school leaving) of the Province of Quebec, or its equivalent, and have had some previous experience in housekeeping (e.g., assisting with the housekeeping in their own homes).
- (c) To the short courses must have entered their eighteenth year and have a good general education.
2. Must produce satisfactory evidence as to moral character; also medical certificate of health, including successful vaccination within the six years preceding date of entrance.

## THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE (B.S.A.)

A four-year Course in the Faculty of Agriculture. For particulars see the Macdonald College Announcement.

## DEGREE IN HOUSEHOLD SCIENCE

The full course for this degree is given at Macdonald College, but the First Year may be taken elsewhere. Full particulars are given in the Macdonald College Announcement.



## DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

(B.Sc. in Agr.)

Students who take the first two years of the B.A. course or of the B.Sc. course in Arts and Science, and afterwards complete their Third and Fourth Years in the Faculty of Agriculture, with certain subjects compulsory in both Faculties, will obtain the degree of Bachelor of Science in Agriculture. They can also qualify for a High School Diploma for the Province of Quebec if, in the Faculty of Arts and Science, they pass in the subjects required by the Department of Education. (See page 187.)

## HIGHER DEGREES

Post-graduate work may be taken at Macdonald College. The degrees offered are M.Sc. and Ph.D.

## PROVINCIAL GOVERNMENT GRANTS TO STUDENTS FROM THE PROVINCE OF QUEBEC

(1) *School of Agriculture*

The Department of Agriculture of the Province of Quebec grants to each student who belongs to the Province of Quebec \$9.00 per month of attendance employed in studying according to the time-table in the School of Agriculture, Macdonald College. This amount will be placed to the credit of such students by the College Bursar and will be deducted from his account for board and lodging.

(2) *School of Household Science*

The Provincial Government grants bursaries of \$20.00 to \$50.00 each to Quebec students from the farming community in the junior and senior years of the School of Household Science.

## COLLEGE ANNOUNCEMENT

Full details as to the courses, etc., will be found in the Announcement of Macdonald College, which will be sent on application to the Registrar, Macdonald College, Que.



## DEPARTMENT OF PHYSICAL EDUCATION

### FOR MEN

All students on entering the University and all students of the First and Second years are required to pass a physical examination. By such examination, any physical defect or weakness may be discovered early, and the student advised in regard to treatment. For those defects amenable to treatment by exercise or other hygienic measures, individual attention is given, and the student is advised as to what forms of exercise are likely to prove beneficial or harmful.

#### I. GENERAL

The aim of the University requirements in physical education is the maintenance and improvement of the physical well-being of the student body, and the production of graduates who are physically as well as mentally fitted for their life-work.

As voluntary exercise is of greater value than compulsory, great latitude is given the individual student in his choice of the type of activity.

The chief factors limiting this choice are:—

1. The suitability of the exercise as a means of physical education.
2. The physical fitness of the individual student to take the form of exercise chosen.
3. The possibility of effective supervision.
4. The practicability of ensuring regular participation.

The aim is not to replace the existing forms of University athletics, but to assist in developing an interest in these by every legitimate means.

#### II. REGISTRATION

1. At the time of registration every male student of the first three years in the Faculties of Arts and Science, Medicine, Dentistry and Science and of the first two years in the Faculty of Law is given a printed announcement of the University requirements in physical education.\* This announcement includes a list of the recognized forms of physical activities in which a student may take part in fulfilment of the requirements, and at the time of his medical examination he is expected to indicate his choice of the particular forms which he wishes to follow.

\* NOTE.—Owing to lack of accommodation these requirements are suspended for the Session 1931-32.



2. At the time of his medical examination, each student is required to fill in a card indicating his choice, as outlined in paragraph III, 1. The Director then decides as to his physical fitness for the form chosen and informs the student of his decision and notes the same on his card, which is filed for reference.

3. Every student is graded by the University Medical Officer as:—

- (A) Fit for all forms of physical exercise.
- (B) Fit for a limited number of forms.
- (C) Fit for gymnasium work only.
- (D) Fit for remedial gymnastics, or temporarily unfit.
- (E) Unfit for any forms of physical exercise.

### III. EQUIVALENTS

1. Subject to paragraphs 2 and 3, the following activities are recognized as fulfilling the requirements:—University basketball, boxing, wrestling and fencing, English rugby, golf, gymnastic classes, harriers, hockey, indoor baseball, rugby, ski-ing and snowshoeing, soccer, swimming and water polo, tennis, track and field teams, the McGill C.O.T.C., and such other activities as may be decided upon from time to time by the Committee on Physical Education.

2. Subject to the approval of the Director, as laid down in paragraph II, 2, any student who desires to participate in competitive athletics, as mentioned in paragraph III, 1, may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

3. If successful in making a place on the team, he may be excused from any other forms of exercise for the season of play, and may be excused for the remainder of the term at the discretion of the Director.

4. Any student who has been placed in Categories A, B, C, or D at his University medical examination, and who does not voluntarily take part in any of the other recognized forms of exercise as provided above, is required to attend the regular gymnasium classes appropriate to his category.

### IV. ATTENDANCE

1. The amount of time required to be devoted to physical exercise by each student is two hours per week throughout the session. Until such time as the University is in possession of its own gymnasium, however,



this amount of time may be reduced by the Committee on Physical Education to meet the exigencies of gymnasium accommodation.

2. A record is kept of the attendance of every student as far as his required physical work is concerned.

3. Medical certificates covering absences which are accepted by the Dean of the Faculty concerned are accepted by the Department, but if the student is able to attend lectures the question of his fitness to take part in physical exercise rests entirely with the Director and the University Medical Officer. Medical certificates covering absences from the University must be presented to the University Medical Officer by the student within one week after his return to University work.

4. Unexcused absences up to one-eighth of the required number of periods are allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth disqualify a student. Such students are required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

5. Excuses are granted for absences due to participation in Inter-collegiate Athletics as follows:—

(a) For all fixtures under the jurisdiction of the C.I.A.U.

(b) For a maximum of one fixture for each sport not under the jurisdiction of the C.I.A.U. This fixture must be specially approved by the Athletic Board, the names of proposed players being submitted to the Faculty previous to the game. The Faculties concerned may not approve of granting excuses from lectures to any whose academic standing does not warrant such an excuse.

In order to secure exemption from attendance on the above grounds Managers must fill out and certify to the facts on the special forms provided for this purpose and deposit them within seven days at the office of the Department of Physical Education.

6. At regular intervals during each session and also at the end of each session, the Director of Physical Education furnishes the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases are dealt with by the respective Faculties.



7. No student in default is allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of his Faculty and approved by the Committee on Physical Education.

8. Not less than one month before the conferring of degrees in each session the Director furnishes to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree is issued to any such candidate unless by the express direction of Corporation.

#### V. EXEMPTION

Claims for exemption from the above requirements must be made in the first instance to the Director, who refers them to a sub-committee on exemptions appointed by the Committee on Physical Education.

#### VI. COLLEGE GROUNDS AND ATHLETICS

The management of the College grounds, all Physical Education, including athletics and sports, is under the control of the Standing Committee on Physical Education. This Committee is responsible for the general maintenance of all University grounds, and retains the ultimate authority and power of supervision in all matters affecting athletics in the University. All matters which may in any way affect athletics must be referred to the Athletic Board, and its approval must be obtained before any departure is made from the authorized routine. The Athletic Board reports to the Committee on Physical Education.

The Athletic Board is responsible for the organization, administration and supervision of the entire athletic programme. The composition of the Board is as follows:—The Principal of the University, Chairman, the Bursar, three members of the teaching staff, three graduates, one of the Stadium guarantors and three undergraduates. Intra-mural and Intercollegiate competitions are conducted in the following sports:—Basketball, Boxing, Wrestling and Fencing, English Rugby, Golf, Gymnastics, Harriers, Hockey, Indoor Baseball, Rugby, Ski-ing and Snowshoeing, Soccer, Swimming and Water Polo, Tennis, Track and Field.

All students of all years must, during the current session and prior to participation in competitive athletics or otherwise engaging in athletic practice or competition, have passed the University medical examination and have received an appropriate category. Those students taking part in Intercollegiate competition must first complete a C.I.A.U. eligibility form for each sport.



All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled are allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, is considered as sufficient ground to disqualify a student from engaging in athletic contests.

The managers, coaches and captains of clubs, or other responsible executive officers, are required to insist upon the strict observance of the rule in regard to medical examination and all the rules and regulations of the Committee which concern them.

All clubs must submit their regulations, rules, and by-laws, and any changes in the same, for the approval of the Board. They must make application for the use of such portions of the grounds as they require, and for any special privileges.

During the session and including the Christmas holidays, *all teams and individual students desiring to participate in "outside athletics"*\* must first apply in writing through the Manager or Coach of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examinations, etc., such student is immediately debarred from participation in all University athletics. He is reported to the Athletic Board, which body, if it sees fit, requests the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation meets to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

All students of the University are required to pay a fee of ten dollars (\$10.00) for athletics and the use of grounds (this is included in the general fee of \$17.00 paid by undergraduates). The amount so paid is credited to the Athletic Board, and is by this body expended in the interest of College athletics, under the general direction of the Committee on Physical Education. A book of general admission tickets for all home games is furnished to students who pay this fee.

The amount derived as grounds and athletics fees from the students of the Royal Victoria College is placed at the disposal of the Committee on Physical Education, for expenditure in the interest of women students.

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\*Outside athletics is interpreted to mean those forms of athletics over which the Athletic Board of the University or the Canadian Inter-collegiate Athletic Union does not have control.



## VII. HEALTH

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation, when requisitioned for by the Department, is provided without cost to the student, for seven days only.

A special leaflet concerning this service and the general work of the Department is supplied to all students at the opening of the session.

## VIII. MEDALS

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the Corporation of the University. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean of the Faculty to which he belongs, and the medal is not awarded to any student who fails in his examination for the degree.

## IX. STRATHCONA CERTIFICATE COURSE

The Departments of Education and Physical Education offer the following courses for men undergraduates of the Fourth Year:—

A course of forty-five hours on the principles and practice of physical education. The course covers elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

Students who satisfactorily complete this course are entitled to certificate "B" of the Strathcona Trust.

## FOR WOMEN

(ROYAL VICTORIA COLLEGE)

Classes in educational gymnastics for all undergraduates of the College and for resident students of music are conducted in the gymnasium of the Royal Victoria College. All students on entering the University are required to pass a physical examination (see regulation on page 635) and are required to pass satisfactory physical tests before taking part in any of the outdoor or indoor physical exercises organized by the Department, whether educational, remedial or recreational.

Work in the Physical Education Department throughout the four-year course (amounting to 140 hours in all) is required of all undergraduate students in the Faculties of Arts and Science and Music. These



periods will be used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual.\* No student will be asked to do work unsuited to her physique, and students debarred from exercise of any kind will be dealt with separately and carefully advised. Every student is required to wear the costume recommended by the Department.

Classes in Physical Education required of women students in other faculties than the Faculty of Arts are also held in the gymnasium of the Royal Victoria College.

Partial students are admitted to the classes in educational and recreative gymnastics on payment of a fee of \$5.00.

Reports of attendance in physical education are regularly sent to the Faculty.

*Strathcona Prizes.*—Three first prizes valued at \$8, \$10 and \$12, and three second prizes valued at \$5, \$6 and \$9, are open to students of the Royal Victoria College, for competition in the Second, Third and Fourth Years respectively. Two prizes of \$5 are offered for competition to the students of the First Year; one for students who have taken part in educational gymnastics at school, and the other for students who have had no previous physical training.

All competitions are held under the following regulations:—

1. Competitors are awarded 50 per cent of the marks on the work of the session.
2. No prize is awarded unless the judges consider the work up to the standard of 75 per cent.
3. The prizes are not awarded in the Second, Third and Fourth Years if the winner fails to obtain her full academic standing. The prizes in the First Year are not awarded if the winners fail in more than one subject at the sessional examinations.
4. Competitors are judged on the work taught in the Physical Education Department during the session, the Physical Director for Women arranging all details concerning the competition. A programme of the competitions is posted not later than March 1st.
5. Judges for these competitions are appointed yearly by the Committee on Physical Education.

#### STRATHCONA CERTIFICATE COURSE

A course similar to that announced on page 640 is given for the women undergraduates of the Fourth Year.

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\*In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department.



## MILITARY TRAINING

### CANADIAN OFFICERS' TRAINING CORPS

HONORARY COLONEL:—GENERAL SIR A. W. CURRIE, G.C.M.G.,  
K.C.B., LL.D.

OFFICER IN COMMAND:—MAJOR J. W. JEAKINS, B.A.

In order to train undergraduates that they may become men fitted to hold His Majesty's Commissions, a contingent of the Canadian Officers' Training Corps was organized at McGill University two years before the Great War. The contingent is a unit of the Active Militia, being governed by special regulations, under which it cannot be called out for active service as a unit.

The training is intended to bring the largest possible number of students up to the standard required for the two certificates:—A, a Lieutenant's, and B, a Captain's. The value of these certificates lies in their showing that the candidates have satisfied a board of regular officers at practical examinations that they have developed properly their powers of command, know how to give orders to other men, can retain their self-possession, and can act promptly on their own initiative in a sudden emergency; and further that they have passed the written examinations, in which they must show a thorough knowledge of topography, how to organize and look after the welfare of men under their command, etc. If a member is recommended for a commission in the Active Militia of Canada, or the corresponding military force in any other part of the Empire, the possession of one of these certificates entitles him to promotion to the rank denoted, as soon as there is a vacancy.

To obtain a Certificate A (Lieutenant's) a member must complete one year's efficient service in the corps, and in the case of Certificate B (Captain's) two years' efficient service, and pass the practical and written examinations, which are held under the auspices of the Imperial and Dominion Government conjointly, for the whole Empire at the same time. The written papers are set and corrected by military experts in London, England.

To be efficient in a given year (1st August to 1st July), a member must have attended forty parades if in his first year of service, or twenty-five parades if in a subsequent year, and must have completed his prescribed course of musketry. The time required is about two hours per week each session, and rifle practice is encouraged.



## THE UNIVERSITY LIBRARY

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors; one Representative Fellow, appointed by Corporation; two representatives of the Faculty of Arts and Science elected by the Faculty; two representatives of the Faculty of Engineering (one of whom being a member of some special Science Library Committee will look after the interests of these libraries on the committee); one representative of each of the Faculties of Law, Medicine, Dentistry, and Graduate Studies, elected by their respective Faculties; the Dean of the Faculty of Medicine (or the Secretary of the Faculty); the Honorary Librarian of the Medical Library; one representative of the Royal Victoria College, one from the Library School, and four other members appointed by Corporation.

The several libraries of the University now contain over 400,000 volumes and 40,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 1,200 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakesperiana, the Redpath Historical Collection, and the Collection of Canadiana. The nucleus of the latter is formed by the choice library of the late Mr. Frederick Griffin, which he bequeathed to the University about forty years ago. It has been growing ever since, and includes, at the present time, besides numerous manuscripts, an interesting collection of Canadian portraits and autographs, recently increased by a gift from Mr. George Iles. The Canadiana have been further enriched by the recent gift of over 270 volumes and 50 pamphlets from the library of the late Mr. William McLennan, presented in memory of him by his children. The library now has an extensive collection of bookplates in process of being classified and mounted.

The Redpath Historical Collection was begun by the late Mr. Peter Redpath soon after he became a Governor of the University. It received substantial yearly additions from him up to the year of his death, after which it was steadily augmented by his widow during the remainder of her life. It is now large and valuable, and affords excellent opportunities for the study of history. Its most striking feature—a series of political, religious and social tracts, for which the first selections were made by the late Professor Henry Morley—was greatly enriched by the late Mrs. Redpath and now comprises about 10,000 brochures, dating from 1600 A.D. to the end of the nineteenth century.



A special Architectural collection, known as the "Blackader Library of Architecture," has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill), who was wounded near Ypres on June 2nd, 1916, and died in London on August 20th of the same year.

"The Emma Shearer Wood Library of Ornithology" was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library rich in periodical and pamphlet material, for use by all who are interested in birds.

"The Blacker Library of Zoology" has been presented by Robert Roe Blacker and Nellie Canfield Blacker, as a comprehensive reference library on this special subject. In addition to standard works, it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals. It is supplemented by the Lyman Collection of books on Entomology.

These three collections are now housed in the recently completed addition to the library and are provided in each case with a reading-room adjacent to the new steel stacks which are devoted to these special libraries.

Students and investigators have the privilege of using the resources of the Gest Chinese Research Library, which contains, in addition to works in English and European languages, a Chinese collection of 90,000 ts'è, bound in t'ao, on all subjects, including an unusually large number of early rare Buddhist and imperial editions, among them a copy of the original edition of the great Chinese encyclopædia, T'u Shu Chi Ch'êng, of which the only other complete copy in the western world is in the British Museum.

The Faculties of Medicine (including the Bibliotheca Osteriana), Law and the Royal Victoria College, maintain libraries in their respective buildings; and there are Departmental Libraries in Engineering, Chemistry, Physics, and Botany.

The Barnes Collection of books on Physics is shelved with the Departmental Library in the Physics Building. The School of Commerce, the School for Graduate Nurses and the Department of Social Service are beginning to make collections of books on their special subjects.

Founded in 1900, as a memorial to the late Mr. Hugh McLennan from his children, the Travelling Libraries of McGill University were endowed in 1911 by their founders. These libraries contain, each, from thirty to forty carefully selected volumes and are sent, on application, and on payment of a nominal fee of \$4.00, to schools, to country libraries, to reading clubs, and to small communities which possess no public library. Pictures, lantern slides and lectures are also supplied by this department. Regulations and full particulars may be obtained from the Librarian of the University. Provision has also been made to supply



books by mail to graduates of the affiliated theological colleges and to ministers who have not the advantage of local libraries.

Although the Library is maintained primarily for members of the University, the Corporation has provided for admission, upon certain conditions, of such persons as may be approved by the Library Committee. It is the desire of the Committee to make the Library as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

The Library serves also as a general reference library for Montreal and has been of service in this capacity to institutions, learned societies, business houses, railways, corporations, and industrial societies. It also has a system of inter-library loans by which it sends books to other libraries and obtains for the teaching staff works not available here.

With the Library are affiliated the McGill College Book Club and the University Book Club, which supply their members with standard, important and recent publications and make a substantial annual contribution of books to the Library.

The Library maintains a museum, open to the public, with a permanent exhibition illustrating the development of the Book Arts, and numerous temporary exhibits are shown in the Gallery of the Reading Room.

### LIBRARY REGULATIONS

(Redpath Library Building)

The following regulations of the Library Committee should be observed:—

1. All students of all Faculties, Schools and Departments who have paid their fees are entitled to read in the Library and may borrow books (subject to the regulations) to the number of three volumes at one time.

2. The University Library is closed on Sundays and on certain other holidays, as noted in the Calendar. With a few exceptions, which are posted in the Library at the appropriate time, it is open as follows:—

MONTHS DAYS	OCTOBER to MAY	JUNE and SEPTEMBER	JULY and AUGUST
Monday to Friday	9 a.m. to 9.30 p.m.	9 a.m. to 6 p.m.	9 a.m. to 5 p.m.
Saturday	9 a.m. to 5 p.m.	9 a.m. to 5 p.m.	closed



3. *All students who wish to use the Library must apply at the Delivery Desk and fill in their signature and address on a Borrower's Register Card. Any subsequent change of address must be reported.*

4. Graduates in any of the Faculties, other than those registered in the School of Graduate Studies, on making a deposit of \$5, are entitled to the use of the Library, subject to the same rules and conditions as students.

5. Books may be taken from the Library only after they have been charged at the Delivery Desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

6. Books shelved in the reading rooms must not be taken from the rooms to which they have been assigned; and, after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

7. Before leaving the Library, readers must return to the attendant at the Delivery Desk books which they have drawn from the stack for use in the reading room.

8. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

9. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any person found guilty of wilfully damaging any book in any way shall be excluded from the Library and shall be debarred from the use thereof for such time as the Library Committee may determine.

10. Damage to or loss of any books, maps, or plates, and injury of library fixtures, must be made good to the satisfaction of the Librarian and the Library Committee. Damage, loss, or injury, when the responsibility cannot be traced, will be made good out of the caution money deposited by the students with the Bursar. Readers are reminded that under the provisions of the Canadian Criminal Code any wilful damage to property constitutes a criminal offence for which severe penalties can be inflicted. Minor damages render the offender liable to a fine of \$20.00, and he is also bound to compensate the owner up to a limit of \$20.00. Refusal to pay these sums is punished with imprisonment up to two months (Sections 539-540). More serious damage may involve a term of imprisonment up to two years (Section 510-E).

11. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card and requested to return the book. If the time has not been extended or the book returned,



after a further delay of at most three days, the book may be sent for by special messenger, at the borrower's expense, or may be replaced and paid for, in the case of a student, out of the caution money of such student; in the case of graduates or other borrowers, out of their library deposits. *A fine of five cents for ordinary books and of twenty-five cents for reference books is imposed for each day that a book is overdue.*

12. Before the close of each session, students and members of the Teaching Staff must return uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

13. Silence must be strictly observed in the Library.

14. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

#### FIRST YEAR OF THE FACULTY OF ARTS AND SCIENCE

Owing to the limited seating capacity of the Redpath Reading Room, the ordinary library needs of the students of the First Year are provided for in the Arts Building for men, and in the Royal Victoria College for women.

#### LIBRARY FEES

The Library fee for undergraduate students in the Faculties of Arts and Science, Engineering and Law is included in the University fees. The fee for partial students is \$4.00. Graduates and students attending extension courses using the University Library must make a deposit of \$5.00 at the Bursar's Office. The fee for members of the McGill College Book Club and the University Book Club are payable to their respective treasurers. Individuals not belonging to any of the above groups may use the Reading Room upon proper introduction and should apply to the Library Committee, through the Librarian, for permission to take books from the building.



## UNIVERSITY BUILDINGS

### THE ARTS BUILDING

This building stands at the head of the Avenue and is three storeys in height. It contains two large and twelve average-sized class-rooms, the largest capable of seating 180 students, as well as numerous conference rooms, professors' offices and a Psychological laboratory and research room.

The men's and women's lounge rooms and the reading room are on the first floor, where are also to be found the office of the Dean, the Faculty Room and the Professors' common room for men (that for the women Professors is on the second floor).

During the spring and summer of 1926 the old Arts Building and Molson Hall were transformed into this splendidly equipped modern building, the only part of the old building remaining being the front wall. The main feature of the building is the Moyse Hall, the cost of which was provided for mainly by a donation from Lord Atholstan in memory of the late Charles E. Moyse, Professor of English Language and Literature for many years. It is fitted for lectures and plays with the necessary dressing rooms and stage fixtures and is especially used in connection with the English classes. The hall is capable of seating 500 people and is beautifully decorated, as is also the large vestibule with its four immense black marble pillars. The style of decoration in the vestibule follows that in the Moyse Hall.

### THE CONSERVATORIUM OF MUSIC

The Conservatorium of Music is situated at the corner of University and Sherbrooke Streets, adjoining the University grounds. On the ground floor are the offices of the Director and of the Secretary, the library and a concert hall where recitals by the staff and students are given during the session and where orchestral and choral practices are held (the more important concerts take place in the large assembly hall of the Royal Victoria College). The second and third floors contain a number of studios, where lessons are given by the various members of the staff, as well as a room for lectures in theory and history of music, sight-singing, etc. In the basement are several practice rooms.

### THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over \$600,000, contains the Offices of the Administration, the Medical Library (with its 38,000 volumes, its Reading Rooms and their complete set of technical jour-



nals), the Osler Library, the Department of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museum of Anatomy. The Faculty of Denistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its Dissecting Room with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology and Embryology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

#### THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over \$500,000, this edifice was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184 feet by 36 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these Departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

The Department of Botany, in addition to its laboratories, has three glass houses—60 feet by 18 feet—adjacent to the Building, and provides living material for the work in General Biology and General Physiology.

The Department of Physiology, with its large and well-equipped teaching laboratories, each accommodating 96 students, is provided not only with motor-driven recording drums for each pair of students, but has also 16 fixed tables equipped with all the necessary apparatus for practical experiments in Physiology which each student must undertake for himself. Other rooms provide for advanced practical instruction and research. This Department is admirably equipped with an excellent workshop, animal quarters, operating and sterilizing rooms, string-galvanometer room, histology rooms, including dark rooms, and the usual space for demonstration. The frog and turtle tanks are in the Basement, and a two-storey house for mammals is adjacent.

The Biochemistry Laboratory on the Third Floor is of the most modern type, and has abundant accommodation for research workers. An extension of this floor is already required to fulfil the needs of Physical Chemistry and the added interest of metabolic studies.

The Department of Pharmacology occupies the Top Floor, and is equally well-equipped.

#### THE PATHOLOGICAL INSTITUTE

The Pathological Institute houses the Department of Pathology, Bacteriology and Medical Jurisprudence. This building, over 200 feet



long and from 60 to 90 feet wide, faces the Royal Victoria Hospital with which it is connected by a tunnel. It is of steel and stone construction in harmony with the architecture of the Royal Victoria Hospital and consists of a high basement containing mortuary for twelve bodies, shops, students' rooms, offices, and machinery rooms. The first floor is given over to Pathology and Medical Jurisprudence (autopsy theatre, lecture room, museum, demonstration rooms, several small laboratories, library and photography).

The second floor has the chemical, histological, experimental, animal and other research laboratories. The third floor is set apart for students' and research laboratories in Bacteriology. With the main building is connected by an archway a small cottage with living quarters for the technical help and for animal rooms. The building contains throughout all floors a refrigerating system (ammonia plant), hot and cold water, live steam and air exhausts, and a special forced ventilating system. The large students' histology laboratory, accommodating 120 students, is built on a rising tier system of student benches, and the whole northeast wall is practically of thick glass.

#### THE MACDONALD ENGINEERING BUILDING

This building is designed to provide accommodation for six hundred students. The ground floor is given up to the civil engineering, geodetic, electrical and mechanical engineering laboratories, and is for the most part 23 feet in height. Mechanical and electrical engineering laboratories and the workshops also occupy the three lower floors of the Workman Building. The entire portion of the second floor is used for purposes of administration (faculty rooms, offices, library, etc.). The front parts of the second and third floors are occupied by eight class rooms which contain 700 seats, while the upper floors, both of the Engineering Building and the Workman Building, are devoted to drafting rooms, containing over 500 tables. The building throughout is of the most approved fire-proof construction, not only in the matter of materials, but in arrangement as well, the several floors being divided by fire walls and fire doors into separate sections. It was erected in 1909 at a cost of about half a million dollars.

#### THE MACDONALD CHEMISTRY AND MINING BUILDING

In addition to the large lecture theatre, which seats about 250 students, there are four lecture rooms for small classes and a number of offices. There are also three large general clinical laboratories (each with a floor space of about 2,400 square feet and accommodation for 200 students at a time), large laboratories for assaying, ore dressing and



metallurgy, with a very complete equipment, and a number of smaller rooms and laboratories for special purposes, including research work. The reference library contains about 1,400 volumes.

#### THE MACDONALD PHYSICS BUILDING

The building is five storeys in height, each floor having an area of 8,000 square feet. Besides a lecture theatre and its apparatus rooms, the building includes an elementary laboratory nearly 60 feet square, large special laboratories, a range of rooms for optical work and photography, separate rooms for private work and two large laboratories arranged for research provided with solid piers and the usual standard instruments. There are also a lecture room for mathematical physics, a special physical library and convenient workshops.

#### THE UNIVERSITY LIBRARY

This building, which is a fine example of the Romanesque style of architecture, was erected in 1892 by Mr. Peter Redpath, a Governor of the University, and was enlarged in 1900 and again in 1922. The general reading room is 110 feet long, 44 wide and 34 high, and will seat 150 readers. The book stacks, four and five storeys in height, have a working capacity of 150,000 volumes.

#### THE OBSERVATORY

The Observatory is equipped for instruction in the use of meteorological instruments and in astronomical work. It is the Montreal station of the Meteorological Service of Canada. Time signals are given to the city, the railways and the shipping.

#### THE POWER STATION

The new Power Station supplies heat to the following buildings: New Medical Building, Biological Building, Engineering and Workman Buildings, Chemistry and Mining Building, the Physics Building and the Arts Building. It also furnishes current for light and power to these buildings and to the Royal Victoria College, the Union and Strathcona Hall. The equipment of the station includes boilers of 1,000 H.P. nominal capacity, provision being made for future extension, and engines and generators of 600 kilowatt capacity. The coal bunkers hold 500 tons. The heating distribution is partly by tunnel and partly by underground conduit, the farthest building served being at a distance of 700 feet from the station. Electric cables are placed underground in vitrified clay conduits.



## THE REDPATH MUSEUM

The Museum occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collection, it contains a large lecture theatre, class rooms and work rooms. The collections in botany, palæontology, geology and zoology are fully and admirably arranged for teaching purposes.

## THE ROYAL VICTORIA COLLEGE

This is a residential college for the women students of McGill University. It is situated on Sherbrooke Street, in close proximity to the University buildings and laboratories. On the ground floor are the offices of the administration, lecture rooms, students' common room, and the dining hall. A gymnasium is fitted up in the basement. On the first floor are other lecture rooms, the library, reading room and an assembly hall. The second and third floors are given up entirely to rooms for resident students.

## STRATHCONA HALL

Strathcona Hall is the home of the Student Christian Association of the University. The building is 55 feet by 110 feet, and is five storeys in height. The three upper storeys are arranged to afford residential accommodation for about sixty students. On the ground floor are the secretary's office, sitting rooms, cloak rooms and a hall capable of seating 350 persons. The second floor contains a large reading room, a large game room, and five small rooms for the use of clubs and societies.

## THE UNION

The McGill Union stands at the corner of Sherbrooke and Victoria Streets, within two minutes' walk of the College gates. The building measures 93 feet by 71 feet and consists of three storeys and a basement. On the main floor are the dining and luncheon rooms; on the second floor, billiard rooms, a news hall, a reading room and a library, a study and a lounging gallery (8 ft. by 21 ft.). The large hall is situated in the top storey. It measures 88 feet by 45 feet and has a seating capacity of 400. There are also smaller rooms for society meetings, etc. In the basement are baths, locker rooms and an exercise room (24 ft. by 38 ft.). The Union is the social centre of the University, the common meeting ground for students of all faculties. It is intended to promote a broad and true university spirit.



## MUSEUMS

## ARCHITECTURAL MUSEUM

The Museum of the Department of Architecture contains a representative collection of historic casts illustrating the development of architectural ornament and form, and the technique of architectural material. Many of the casts have been specially prepared for the Department. The group of English mediæval art is unique in any University on this continent. The collection of metal work includes examples of iron, brass, copper and jewellery, and is arranged so as to exhibit the technical possibilities of the material.

## BOTANICAL MUSEUM

In the library and museum room of the Department of Botany, on the ground floor of the Biological Building, is arranged a small teaching collection of 50,000 specimens of Canadian and exotic plants, and collections illustrating structural and economic botany.

## MUSEUM OF HYGIENE

The material in the museum has been rearranged with a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of public health, but also examples of types which are to be avoided on hygienic principles.

In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection*.—Including disinfecting apparatus of all kinds, disinfectants and antiseptics.

2. *Lighting and Heating*.—Showing contrivances used for these purposes, and illustrative of the principles involved.

3. *Water*.—Showing conditions connected with pollution of water supplies, whether derived from the surface or underground sources; methods of purification on large and small scales; water pipes, etc., and the influence which these fittings may exert upon the water contained therein.

4. *Soils and Building*.—Building sites, various kinds of soils; relation between soil and dampness; permeability of soils to gases and water; composition of soils; effects of ground moisture on dwellings; measures to be taken against dampness and foul air; and building materials of all kinds.



5. *Air*.—Including ventilation schemes and appliances, climate and meteorology, with apparatus illustrative of each class.

6. *Foodstuffs*.—Adulteration and sophistication practised; samples of unsound foodstuffs.

7. *Bacteriological and Pathological*.—Specimens of diseased meats; specimens and slides of all the common micro-organism, pathogenic and non-pathogenic.

8. *Clothing*.—Specimens of all the materials utilized for the manufacture of clothing, showing the raw state and the various processes through which they pass until the finished product is reached; the hygienic value of these various articles is also set forth.

Injuries and deformities which may directly result from the use of badly designed articles of clothing; history and evolution of clothing.

9. *Drainage and Refuse Disposal*.—This section includes every type of appliance used as sanitary fixtures in buildings; drainage schemes; ultimate disposal of refuse both liquid and solid; refuse destructors, and sewage disposal plants. The section also includes types of faulty methods and appliances which on principle ought to be avoided.

In addition to the regular museum exhibit, there is a collection of over 1,000 lantern slides illustrative of phases of hygiene. The slides have been so arranged as to be available for demonstration as hand specimens.

A catalogue with text and full description of all the exhibits contained in the museum is issued by the University authorities, and may be purchased at the general office.

#### THE MCCORD NATIONAL MUSEUM

This Museum is situated at the corner of Sherbrooke and McTavish Streets. The collection is a gift to the University from the late Mr. David Ross McCord of Montreal, a graduate in Arts of 1863, and in Law of 1867.

The range of the collection is extensive, comprising documents, letters and objects of historic interest to Canada, from the earliest settlement of the white man, besides numerous valuable letters, autographs and engravings relating to the history of Europe.

There is a comprehensive collection of Indian material illustrating the customs and habits of the various Indian and Eskimo tribes from the Atlantic to the Pacific Ocean.

There is a special collection of material relating to General James Wolfe and the conquest of Quebec in 1759. The French régime in Canada is well represented by portraits and letters.



There are also many objects of interest relating to characters and events of more recent Canadian and American history.

The Museum is open to the public without admission fee from 2 to 5 p.m. on weekdays, and from 2.30 to 5 p.m. on Sundays and holidays, with the exception of Christmas and New Year's Day.

Classes from the schools may come any afternoon or, if more practicable, by special arrangement, in the morning.

#### PATHOLOGICAL MUSEUM

On the ground floor of the Pathological Institute is the Pathological Museum which includes the teaching material for this department. Material for the hospital ward clinics is also prepared from this collection.

#### PETER REDPATH MUSEUM

On the lower floor are the geological lecture theatre, with collection of lantern slides; a class room, a chart room and offices for the staff. In the hall are the aquarium and special exhibits.

The Lyman Entomological Room is also on this floor, housing the extensive collections of North American insects of all orders, as well as the library of Entomological works, which includes many extremely rare and valuable books and complete sets of periodicals.

On the first floor is the great museum hall, on each side of which are alcoves with upright and table cases containing the collection in palæontology arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological classification, so as to enable the student to see the general order of life in successive periods, and to trace any particular group through its geological history. The same systematic grouping can be seen in the ten flat cases containing the collection of fossil plants arranged around the centre of the hall. In the centre are the large casts of extinct mammals, comprising the Sir William Logan Memorial Collection.

At the extreme end of the hall are placed the collection of minerals, arranged in such a manner as to facilitate their systematic study. Nearby, in the centre of the hall, are economic collections and models illustrating land forms.

In the upper gallery of the great hall are placed the zoological collections, which have been mainly acquired by occasional donations during the last fifty years, partly also by purchase and partly by accessions from the former Natural History Society of Montreal. More accommodation is now required in order to exhibit the specimens to better advantage. The *Philip Carpenter Collection* of shells is especially noteworthy for its arrangement and completeness.



Papers and memoirs relating to certain type specimens in the collections can be obtained from the Assistant Curator, Mr. S. Chambers. Classes of pupils from schools can be admitted on certain days under regulations which may be learned from the Professors of Geology and Zoology or from the Registrar of the University.

#### STRATHCONA MUSEUM

##### *Ground Floor: Ethnological Collection.*

On the ground floor is arranged:—

1. Ethnological Collection, including Dr. G. M. Dawson's Indian Collection of materials from the Queen Charlotte Islands.
2. The Todd Collection of Canadian Indian material.
3. The Todd Ethnographical Collection from West Africa.
4. Ethnological Collection from the Montreal Natural History Society.

Also much other material presented to the University extending over a period of fifty years.

##### *Second Floor: Central Medical Museum.*

There are 2,519 mounted specimens on the shelves, and 1,249 unmounted specimens in a carefully labelled and classified storage, readily available for clinical teaching. A descriptive catalogue is in process of preparation.

In addition, there is a valuable historical collection, including some 150 of Osler's original specimens collected and prepared by himself while at McGill University, and also the collection of the Canadian Army Medical Museum.

##### *Third Floor: Anatomical Collection.*

The Anatomical Museum is designed primarily as a teaching museum to be used in conjunction with the didactic and practical instruction given in the Department of Anatomy. It now contains several thousand preparations and models arranged to illustrate general embryology; human embryology and organogenesis; the theory of human evolution; the prehistoric races of mankind; physical anthropology; comparative osteology; general comparative anatomy and the details of human structure, regional, systematic and topographical.



In addition to the material which is exhibited in the museum cases several hundred wet preparations are kept in storage and are used as teaching specimens in the class and dissecting rooms.

Special collections illustrating the anatomy of regions and organs have been formed and are being continually augmented. These are available not only for undergraduate teaching, but also for use by interested graduates.

A collection of over two thousand lantern slides and several hundred stereoscopic photographs is maintained.



## LABORATORIES

### CEMENT LABORATORY

The laboratory is equipped for making complete tests on the strength and properties of cements, mortars, concrete, concrete beams, etc., and includes the following:—Tensile testing machines, hydraulic compression machine (50-ton), specific gravity apparatus, sieves for fineness tests, steaming apparatus, Vicar's and Gilmore's needles, metal moulds, mixers, rammers, balances, etc. Tanks are provided for the storage of briquettes and other test specimens and the equipment is supplemented by that of the Strength of Materials Laboratory in making tests on large-sized specimens.

### CHEMICAL LABORATORIES

Four large laboratories are provided for undergraduate instruction in elementary, analytical, organic, physical and colloid chemistry, with accommodation for about three hundred students.

These laboratories are particularly well lighted and have ample hood space.

Balance rooms, well equipped, are connected with each of the main laboratories.

The laboratories are provided where necessary with electricity, water and gas, and possess a good supply of apparatus for experimental work of a very varied character.

Smaller laboratories for special work are also available.

In the building are also laboratories for those undertaking research work in organic, inorganic, physical and colloid chemistry, as well as a number of smaller research rooms for one or two students each.

In the Biological Building a large laboratory for elementary teaching with facilities for about three hundred students, as well as research rooms for about a dozen students, belongs to the Chemistry Department.

The newly constructed building of the Pulp and Paper Research Institute provides some of the most modern laboratories on this continent for research in cellulose chemistry. Associated with McGill University in this building are also the Canadian Pulp and Paper Association and the Pulp and Paper Division of the Forest Products Laboratories of Canada.

### ELECTRICAL LABORATORIES

*The Senior Laboratory* is designed primarily for the study of alternating current phenomena and is equipped with motor-driven alternators of various types, giving a frequency range of from 25 to 360



cycles per sec.; single and polyphase induction motors of the squirrel cage and wound rotor types; single phase series and repulsion motors; constant voltage and constant current transformers; mercury arc rectifier, rotary converters, potential regulators; meters for the measurement of current, voltage, power frequency, power factor, maximum demand and wave form; relays, rheostats, circuit breakers, static condensers, reactance coils, synchrosopes and other auxiliary apparatus. A travelling crane spans the laboratory and gives facilities for the rearrangement of the machines.

The above laboratory is also used by the Third Year electrical students for the study of current flow in circuits and of direct current machinery.

*The Junior Electric Laboratory* on the third floor of the Electrical Engineering Building is used by the students of other departments who are taking an elementary electrical course, for the study of both direct and alternating current phenomena. The laboratory is equipped with shunt, compound and series wound direct current generators and motors of different types; constant current generators; arc and incandescent lamps; meters for the measurement of current, voltage and power; rheostats, circuit breakers, starters and other auxiliary apparatus. Several alternators, transformers, rotary converters and induction motors along with the necessary instruments and control apparatus are provided for use by the students taking the general elementary course. A hand-operated travelling crane gives facility for the rearrangements of the machines.

*The Electrical Measurements Laboratory* on the fourth floor of the Electrical Engineering Building is equipped with apparatus for precision measurements of electrical quantities of all kinds.

This laboratory is used by the senior electrical engineering students and post-graduate students. It is also used by members of the staff for industrial testing and research. The most common industrial tests performed are:—Conductivity, insulation resistance, ratio and phase angle of current transformers, dielectric strength of transformer oil and other insulating materials, calibration of electrical meters, magnetic testing of iron, temperature coefficients of resistance, capacities of condensers, inductance of coils, light distribution curves of reflectors, and efficiency of transmission of light through globes.

The equipment includes:—a conductivity bridge with controlled temperature oil bath, Wheatstone bridges, standard resistance, Weston Standard Cells, precision potentiometer, Kelvin current and watt balances, Western standard ammeters, voltmeters and wattmeters, frequency meters, current and potential transformers, D'Arsonval galvanometers, vibration galvanometers, thermo galvanometers, dynamometers, wave



meters, potential regulators, phase shifters, thermionic valves, planimeter, precision photometer bar, with universal rotators, motor-driven sector discs and screens, certified standard incandescent lamps, Sharp Millar portable photometer, Burrows parameameter, and Epstein iron tester, variable mutual inductances and condensers, etc.

The laboratory is supplied with direct currents up to 750 amperes, alternating currents up to 3,000 amperes, direct voltages up to 1,500 volts and alternating voltages up to 200,000 volts. Variable audio-frequency oscillating generators provide power for bridge measurements.

*The Communication Engineering Laboratory*, on the fourth floor, is equipped with apparatus for building up oscillating, transmitting, detecting and amplifying circuits, and for radio measurements of all kinds. A certain amount of industrial testing and calibrating is carried on by the department, chiefly thermionic valve testing and measurements of inductance and capacity. The laboratory is also being equipped with apparatus for the study of telephone problems; transmission, inductive interference from power lines, measurements of noise on telephone lines, cross-talk, transpositions, and the use of repeaters, etc.

*The High-voltage Laboratory* contains the following equipment:—Four 200 to 50,000 volt transformers insulated so as to operate up to 200,000 volts; one 200 to 2,000 volt insulating transformer; one 110 to 20,000 volt testing transformer; standard spark gaps for oil and air; cathode ray tubes, electrostatic voltmeters and other auxiliary equipment. The transformers are provided with auxiliary voltage coils for direct voltage measurement and for connection to the oscillograph. The connections to this laboratory are such that any machine in the department may be used as a source of power and controlled directly from the transformer room, so that a wide range of frequency and of wave form is available for experimental work.

*The Oscillograph Laboratory* is equipped with a Blondel triple oscillograph, with both visual and photographic attachments, and is specially adapted for the study of transient phenomena.

Power is supplied to the above laboratories from the 220-volt, 3-wire, D.C. generators in the central power-house. The voltage is maintained approximately constant on the two sides of the system by a balancer set located in the Senior Laboratory, which is also equipped for supplying constant voltage circuits of 125 volts.

The department maintains a small machine-shop for instrument and machine repair and for the construction of special experimental apparatus.



## GEODETIC LABORATORY

The equipment of this laboratory consists of:—

(1) Linear instruments:—a Rogers comparator and a standard bar for investigating standards of length; a fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.; Munro-Rogers linear dividing engine.

(2) Circular instruments:—a Rogers circular comparator.

(3) Time:—an astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity:—a portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidence by beats.

(5) A water gauge apparatus for testing aneroid barometers; four level triers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

*Astronomical Observatory.*—The observatory equipment for the purpose of instruction in practical astronomy consists of:—a Bamberg prismatic transit with zenith attachment; six astronomical transits for meridian observation; two Troughton & Simms zenith telescopes; two 8-in. alt-azimuth instruments; sidereal and mean time clocks and chronometers, chronograph and electrical circuits by which observations and clock comparison within or without the observatory may be made.

## HIGHWAYS LABORATORY

The Highways Laboratory is equipped for conducting physical and chemical tests of road-building materials, such as asphalts, tars, brick, stone, gravel, sand, etc. Among the more important items of equipment are Deval and Dorry machines; a standard rattler; an impact testing machine for rock; a diamond drill, lap and saw for preparing rock specimens; balances and scales; asphalt ductility machine; penetrometer; screens and screen shaker; extraction apparatus; drying ovens (gas and electric); viscosimeters; flash point testers; specific gravity apparatus, and melting point apparatus. There is also a large assortment of chemical glassware, etc.



Facilities for advanced work are greatly increased by the fact that this laboratory is operated in close connection with the Strength of Materials Laboratory.

#### HYDRAULIC LABORATORY

In this laboratory the student studies experimentally the laws governing the flow of water through orifices, Venturi meters, pipes, weirs, etc., and carries out experiments on the efficiency of centrifugal pumps and of various forms of water turbines.

The equipment includes:—apparatus for the measurement of the discharge of water from orifices, nozzles, weirs, etc., under varying conditions; arrangements for investigation of the loss of head by surface friction, by valves and diaphragms, and at curves and bends in pipes; Venturi meter for use at different discharges; centrifugal pumps of different types arranged for testing under varied conditions; various water turbines, including Pelton wheel, and reaction wheels of Francis and propeller types; apparatus for measurement of pressure due to impact of jets on surfaces of different forms; gauge testing appliances; Hele Shaw's apparatus for study of the stream lines in a perfect fluid, illustrating the flow round obstructions in a channel, and numerous magnetic problems; numerous calibrated tanks, weighing appliances, and measuring apparatus in connection with the above.

The water turbines are of the most modern type, and are arranged for testing so that complete characteristic curves can be obtained. Different types of draft tubes can be used, so that a thorough study can be made of the behaviour of various types of runner.

#### MECHANICAL ENGINEERING LABORATORIES

These laboratories are used in connection with the courses in Mechanical Engineering subjects. The smaller apparatus belonging to the laboratories includes the necessary equipment of weighing machines, ordinary and water dynamometers, steam calorimeters, thermometers, gauges, pyrometers, coal gas and oil calorimeters, indicators, planimeters, flue gas analysis, etc.

##### 1. Mechanical Laboratory.

The equipment of this laboratory includes:—a Thurston railway pattern oil tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; standard viscosimeters and other necessary apparatus for the physical testing of lubricants; a high-speed horizontal engine having a cylinder 6 inches diameter, 9 inches stroke, and operated by compressed air; a gas-fired preheater for the above engine; two standard 9½-inch Westinghouse airbrake



pumps, fitted for testing and supplying compressed air for experimental and other purposes; a non-rotative Blake steam pump, having steam and water cylinders  $4\frac{1}{2}$  and  $2\frac{3}{4}$  inches diameter and  $4\frac{1}{2}$  inches stroke; apparatus for measuring the heat loss from pipe coverings and from radiators, on the efficiency of worm and other gearing, for governor testing, for testing fans and blowers.

## 2. Steam Engine Laboratory.

This laboratory is furnished with an experimental steam engine of 120 I.H.P., specially designed for investigating the behaviour of steam under varying conditions. The cylinders are  $6\frac{1}{2}$  inches, 9 inches, 13 inches. The cylinders can be so connected as to allow of working as a single, compound, triple or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed. This laboratory also contains the following machinery:—a Robb automatic cut-off engine, having a cylinder  $10\frac{1}{2}$  inches in diameter by 12 inches stroke, which is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute; an automatic high-speed engine by Macintosh & Seymour, having a cylinder 12 inches in diameter by  $12\frac{1}{2}$  inches stroke, in connection with which there is an automatic recording apparatus for registering the load on the brake; a Leonard horizontal engine, having a cylinder 8 inches diameter by 9 inches stroke, specially fitted for instructional work in valve setting and provided with an independent surface condenser; a two-stage air compressor (built in the workshops of the department) taking 40 H.P. and having cylinders 10 inches and 17 inches in diameter by 15 inches stroke (the compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired); a 15 K.W. Curtis steam turbo-generator with independent surface condenser, air pump, and a bank of lamps for varying the load; two 12-H.P. high-speed forced lubrication compound engines (built in the workshops of the department), one of which is used to drive a Hall 1-ton  $\text{Co}_2$  ice machine.

Steam is supplied to this laboratory by the boilers in the Workman Building. These consist of one 100-H.P. locomotive boiler, Belpaire type, fitted with Howden oil burning furnace, two Babcock & Wilcox water tube boilers, each 60 H.P. These boilers are fitted with the



necessary tanks, weighing machines and apparatus for carrying out evaporation tests. For the study of superheated steam, one of the B. & W. boilers is fitted with a superheater built by the Superheater Co., and there is also a B. & W. separately fired superheater.

### 3. Gas Engine Laboratory.

This laboratory contains a horizontal gas engine by the National Gas Engine Company, having a cylinder 12 inches diameter by 20 inches stroke and developing 40 B.H.P.; a suction type producer for the above with the necessary scrubbers and gas cleaning apparatus; a 10 B.H.P. Otto type gas engine (built in the workshops of the department) having a cylinder  $8\frac{1}{2}$  inches diameter by 12 inches stroke; a 14 B.H.P. 2-cylinder, 2-cycle Grey gasoline engine, a 4-H.P. Blackstone oil engine, a Ford automobile engine, a 9 H.P. Victory (Hvid) oil engine, and a 9 H.P. crude oil engine built by Vickers & Co.

### 4. Machine Shop.

This shop contains lathes, shapers, milling machines, etc., and in addition to being used for shopwork instruction is used as a laboratory for time studies and routing, etc.

## METALLURGICAL AND ASSAYING LABORATORIES

These consist of a large furnace room of 2,000 sq. feet, for metallurgical operations, a furnace room for assaying of 1,000 sq. feet, a balance room, two small chemical laboratories, and parts of other rooms, which are utilized for pyrometric and photo-microscopic work. The furnace room is fitted with a water-jacket blast-furnace, 21 inches inside diameter, for smelting lead and copper ores, and a Bruckner roasting furnace.

In addition to this comparatively large-scale plant, apparatus has been provided to enable the students to study in detail the more important metallurgical operations, using quantities of ore or metallurgical products of usually not more than a few pounds in weight. For this small-scale work there are a number of crucible and muffle furnaces, heated by coke, gas, oil and electricity.

The electric furnace plant consists of a 50 H.P. motor and a 30 K.W. alternating current generator, together with transformers and measuring instruments. A number of electric furnaces have been installed for making steel, smelting ores, melting metals and making researches at high temperature. An automatic controller regulates the supply of power to these furnaces. A low-voltage direct-current generator is employed for electrolytic operations, and an electrode rotator and storage battery has been added for electrolysis on a small scale. An electric muffle furnace, having carbon resistors and an alundum muffle,



is in regular use for determining the melting temperature of refractory materials, measurements being made with an optical pyrometer and Seger cones; the furnace can be heated to 1800°C. A "surface combustion" gas furnace and an oxy-acetylene furnace are also available for high-temperature work.

A Leeds and Northrup "hump" method electric furnace with recording pyrometer has been modified to give automatic time-temperature control and is now a most useful appliance for heat-treatment and pyrometric research. For heat-treatment and fire-assaying there is also a large electric muffle furnace with automatic temperature control, and a Freas electric oven suitable for constant temperature work up to 180°C.

An oxy-acetylene cutting and welding outfit is in regular use and has proved both instructive and useful for repairs and new construction.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

A small drop-testing machine, a Sankey metal-bending tester, and Shore, Brinell and Rockwell hardness testers have been installed for investigating the mechanical properties of metals.

The assaying laboratory is equipped with a number of crucible furnaces fired with coke, a large gas muffle furnace, several gas-fired crucible furnaces, a large oil-fired muffle furnace and the electric muffle furnace mentioned above.

Adjoining the assaying laboratory are the balance room and a small laboratory for chemical work. One of the chemical laboratories has been fitted up as a regular "works laboratory" in which students are trained in commercial metallurgical analysis.

The metallographic laboratory is well equipped with microscopes, including a standard works microscope with photographic attachment. It has also a dark room and two very satisfactory polishing machines for preparing metal specimens, which were built in the department.

#### MINING AND ORE-DRESSING LABORATORIES

The Department of Mining Engineering has laboratories for ore-dressing, and a number of rooms of moderate size equipped for use as special laboratories, dark room, machine shop, etc. The effective floor space is about 10,000 square feet, in addition to which the departmental store rooms, ore bins, etc., have an area of 1,500 square feet.

The ore-dressing laboratory proper is built in two storeys about a central well and has about 6,500 square feet total floor space. The equipment comprises pieces of apparatus specially designed for individual work on a small scale. Many of these are for elementary investigation and demonstrations of a theoretical nature, others are working repro-



ductions on a reduced scale of typical ore-dressing machines. Each machine is ordinarily used and tested independently, but, when expedient, a number of machines can be connected and thus complete plants of various kinds can be improvised. Special attention is paid to flotation and cyanidation. In flotation the plant is so arranged that continuous operation is secured and selective flotation of two or more minerals obtained, under conditions which closely approximate large scale operations in both practice and results obtained.

The chief pieces of apparatus in the main laboratory are a gyratory and both types of jaw rock crushers; gravity stamp mill of 600 lbs.; steel-tired rolls; grinders for preparing samples, and ball mills, pebble mills and amalgamation pans for extremely fine grinding; Jones and Brunton samplers; a Callow belt screen, a Tyler-Hummer screen, and power shaking screens for sizing the crushed ores; a Richards pulsator jig, and other small hand jigs for coarse and medium concentration; Wiffley and Butchart riffled tables; magnetic separators, flotation apparatus of different types for both continuous and intermittent operations; a pachuca agitator, cyanidation vats and agitators, a Dorr thickener, an Oliver filter with the necessary tanks, pumps, etc., and several smaller vacuum and pressure filters; plates, pans and barrels for amalgamating gold and silver ores; settling and feeding cones, and various other special pieces of ore-dressing apparatus.

An hydraulic lift and the necessary centrifugal pumps, feeders, samplers, steam-jacketed drying tables, etc., are provided for use in continuous work. The power chiefly used is electricity, generated in the University power station and utilized through a number of independent motors aggregating 100 H.P. Two motor-driven vacuum pumps of  $7\frac{1}{2}$  and 4 H.P. serve the filters. The department is equipped with suitable apparatus for electrical measurements, and is thus able to make continuous and accurate determination of the amount of power used by each machine.

Compressed air for the laboratory is provided by a single-stage air compressor, direct-connected to a 25-H.P. motor. A low-pressure tank and nozzle are provided with which the students make compressor-efficiency tests.

In addition to the main laboratory, there are excellent facilities for advanced and research work—including a chemical and assay laboratory and a photographic room.

#### PETROGRAPHICAL LABORATORY

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining Building. It is provided with a number of petrographical microscopes by Bausch and



Lomb, Leitz, Siebert, Grouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solution, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks has been installed, which runs by electric power and gives excellent facilities for the preparation of thin and polished sections for microscopic use.

For advanced work and petrographical investigations, the extensive collection of rocks and thin sections, donated to the department by Dr. F. D. Adams, is available for purposes of study and comparison.

#### THE PHYSICAL LABORATORIES

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by students in practical work; (3) various types of important instruments for exact measurements, to be used in connection with special work and research.

The basement contains a liquid air plant and two large and one small laboratories for research work. Stark effect, radioactivity, electrical measurements, spectroscopes, etc.

There is a constant temperature room, surrounded by double walls, which is fitted with Moll Recorder and Concave Grating.

The first floor contains the main electrical laboratory, which is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves around the walls. This room contains a large number of electrometers, galvanometers, potentiometers, and other testing instruments of various patterns, and adapted for different uses. Three small research laboratories adjoin the electrical laboratory. A well-equipped workshop serves for the construction of research apparatus and repair work.

On the second floor of the building there is a heat laboratory for advanced work and research. This adjoins a private laboratory fitted for research work. On this floor is situated the main lecture theatre with adjoining preparation and apparatus rooms, also the Director's Office and laboratory.

The third floor contains two small lecture rooms, a library and reading room for the staff and professors' rooms.

The fourth floor contains the large elementary laboratory, a room 60 feet square, devoted to elementary practical work in heat, sound, light, electricity and magnetism. There is a demonstrators' room adjoining,



and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is an optical laboratory for advanced and research work, a series of smaller optical rooms, and a dark room for photographic work.

On the fifth floor is a laboratory for properties of matter, and a students' lathe and workshop.

#### STRENGTH OF MATERIALS LABORATORIES

These laboratories are equipped with apparatus for determining the physical properties of materials of construction and for illustrating the fundamental laws of the strength of materials. The equipment includes:—

(a) Riehle testing machine of 60,000-lb. capacity, a Wicksteed 100-ton, a Wicksteed 50-ton, an Emery 75-ton machine, and an Olsen machine of 10,000-lb. capacity, for testing the tensile, compressive and transverse strength of materials of construction. The 100-ton Wicksteed machine is equipped for testing the transverse strength of girders and beams up to 26 feet in length. Provision is also made for testing ropes, belts and textile fabrics, holding power of nails, strength of hose, etc.

(b) An accumulator, operated by an electrically driven pump, furnishes a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, to ensure a steady application of stress.

(c) Extensometers of the Bovey, Ewing, Unwin, Martens, Marshall and other types; portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the extensions, compressions and deflections of the specimens under stress in the testing machines.

(d) Apparatus for measuring the torsion of rods, deflection of springs, elongation of rods under tension; bending combined with torsion, etc.

(e) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in pounds up to 2,500 lbs. per square inch. All the testing machines are on the same pressure circuit, and are connected with the Emery gauge and other standard gauges.

(f) Apparatus for determining the hardness of materials of construction, including Shore scleroscope.

(g) Zeiss and other microscopes, and apparatus for microscopic study of metals.



(h) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from 0.00001 lb. up to 125 lbs.

(i) Micrometers of all kinds, including a 10-inch Howard gauge, and Berry strain gauges.

(j) Amsler box for calibration of large testing machines.

#### BOTANICAL LABORATORIES

The Department of Botany is housed on the first and ground floors of the Biological Building. The large and well-lighted elementary laboratory will afford ample accommodation for large classes. There are, in addition, smaller laboratories for Phanerogamic and Cryptogamic Botany, special rooms for preparation, sterilization, chemistry and photography and research accommodation. Opening out of the large laboratory is a small conservatory for the culture and preservation of demonstration material. A room is also set apart as a departmental laboratory, reading room and demonstration museum.

The practical work in plant physiology, genetics, etc., is done in a special large physiological laboratory (20 ft. by 75 ft.), and three adjoining glass houses, each 60 feet long and 18 feet wide, with the exception of a section of the central house, which is 25 feet square.

#### PETROGRAPHICAL LABORATORY

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining Building. It is provided with a number of petrographical microscopes by Bausch and Lomb, Siebert, Grouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and petrographical investigation, Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.



## THE PSYCHOLOGICAL LABORATORY

The psychological laboratory occupies fourteen rooms on the third floor of the Molson Hall in the Arts Building. It contains apparatus for the study and investigation of sensation, perception, ideas, memory, association, attention, volition, feelings, emotions and reaction. This equipment serves three purposes: First, it is adapted to research work in the various fields of experimental psychology, including physiological psychology, educational psychology, and applied psychology. Second, it is used to acquaint beginners with the methods of experimental psychology, both qualitative and quantitative. Third, it furnishes material for experimental demonstration in the elementary and advanced lecture courses.

## THE ZOOLOGICAL LABORATORIES

The zoological laboratories are situated in the Biological Building, where ample provision is made for the accommodation of all classes.

The equipment includes microscopes and microtomes and accessories of different models for various requirements; fresh water aquaria, preparations, charts and apparatus for research. Specimens exhibited in the Peter Redpath Museum are available for study and illustration.

Arrangements can be made with the Biological Board of Canada for qualified students to take up some branch of original work at the Atlantic Biological Station, St. Andrews, N.B., during the summer months and to complete the investigation here during the session.



# McGILL UNIVERSITY

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Anderson, Walter F.	Med. 1	3534 University St., Montreal	MA 3448
		Pictou, N.S.	



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Andrew, Russell H.	Med. 1	2052 Victoria Ave., Westmount, Que. 67 E. Orvis St., Massena, N.Y.	LA 2364
Angel, Kalman	Arts 3	4317 St. Dominique St., Montreal	BE 6264J
Anglin, James P.	Arts 2	682 Roslyn Ave., Westmount, Que.	EL 2144
Anglin, Jean C.	Arts 2	682 Roslyn Ave., Westmount, Que.	EL 2144
Anthony, Alan R.	Med. 3	Apt. 11, Saronia Apts., 2019 Stanley St., Montreal	LA 4309
Angus, Alexander D.	Arts 1	1738 Angus Drive, Vancouver, B.C.	
Appleton, Frances E.	Arts 4	3450 Drummond St., Montreal	UP 2012
Arcand, Louis J.	Ap. Sci. 4	4518 Marcell Ave., Montreal	EL 5569
Archer, Russell C.	Arts 3	3561 Durocher St., Apt. 2, Montreal	HA 7408
Archibald, John Stewart	Med. 1	3485 McTavish St., Montreal	MA 2720
Archibald, Robert L.	Arts 1	West Lorne, Ont.	
Archibald, William S.	Med. 4	Strathcona Hall, Montreal	MA 1567
Argue, John F. Jr.	Arts 2	Box 120, Kamloops, B.C.	
Arkell, Roy R.	Com. 2	1610 Sherbrooke St. W., Montreal	FI 3764
Armstrong, John E.	Ap. Sci. 2	3637 University St., Montreal	MA 1824
Arnold, John S. H.	Arts 4	10117, 125th St., Edmonton, Alta.	
Arnold, Leonard E.	D.P.H.	3434 McTavish St., Montreal	UP 8633
Aronovitch, Harry L.	Arts 2	116 Nepean St., Ottawa, Ont.	
Aronovitch, Michael	Arts 4, Med. 1	3637 University St., Montreal	MA 1824
Aronovitch, Sybil R.	Arts 1	1529, 35th Ave. W., Vancouver, B.C.	
Arrowsmith, Meryl K.	Arts 3	4060 Marlowe Ave., Montreal	WA 0217J
Arundel, Nancy C.	Arts 2	3430 Ontario Ave., Montreal	UP 3641
Arthur, Noel Robertson	Arts 1	3430 Park Ave., Apt. 6, Montreal	PL 0891
Asbury, Nowers	Ap. Sci. 1	5330 St. Urbain St., Montreal	CR 5306
Ascah, Frederick G.	Arts 1	5330 St. Urbain St., Montreal	CR 5306
Askwith, Winston M.	Ap. Sci. 1	285 De L'Épée Ave., Outremont, Que.	AT 4815
Aspler, Moses M.	Arts 3	133 Brock Ave. N., Montreal West	WA 7646
Astwood, E. Millard	Med. 5	493 Sherbrooke St. W., Montreal	MA 1439
Atkinson, Anson R.	Med. 1	Stonewall, Man.	
Atkinson, Hammond J.	Grad. Sch.	1442 Sherbrooke St. W., Apt. 9, Montreal	UP 5162
Atkinson, Thomas M.	Ap. Sci. 3	Collingwood, Ont.	
Atto, Clayton H.	Arts 3	18 Somerville Ave., Westmount, Que.	WE 1566
Auld, George E.	Arch 3	25 Notre Dame Ave., St. Lambert, Que.	St. L. 1211
Babcock, Gladys L.	Grad. Nurse	Cavendish Apts., 428 Sherbrooke St. W., Montreal	MA 9027
Bacal, Dorita	Arts P.	222 Powell Ave., Ottawa, Ont.	
Bacal, Frank	Arts 1	4053 Esplanade Ave., Montreal	BE 5036
Backler, Irving S.	Ap. Sci. 3	690 Sherbrooke St. W., Montreal	LA 7141
Baikie, Lisabel	Arts 4	Hamilton, Bermuda	
Bailey, Alexander G.	Ap. Sci. 1	3586 Clarke St., Montreal	HA 8573
Bailey, James	Ap. Sci. 3	Embro, Ont.	
Bailey, Ralph A.	Arts 4 & Med. 1	Macdonald College, Que.	St. Annes 87
Baillie, Janet	Arts 3	3637 University St., Montreal	MA 1824
Baird, Charles C.	Med. 5	35 Roseberry Place, St. Thomas, Ont.	
Baker, Abigail E.	Grad. Nurse	274 Trenton Avenue, Mount Royal, Que.	AT 2797
		3478 McTavish St., Montreal	UP 2143
		949 Cumberland Ave., Hamilton, Ont.	
		3630 Park Ave., Montreal	MA 3917
		Sackville, N.B.	
		3422 Vendome Ave., Montreal	
		760A Bloomfield Ave., Montreal	AT 0390
		5331 Mance St., Montreal	CR 9859
		Royal Victoria Annex, Montreal	MA 2610
		262 Monkland Ave., Montreal	
		3530 Durocher St., Montreal	MA 4001
		186 Holmwood Ave., Ottawa, Ont.	
		301 Ballantyne Ave., Montreal West	WA 1409
		5189 Cartier St., Montreal	FI 6536
		Suite 3, Marlborough Apts., Calgary, Alta.	
		Royal Victoria College, Montreal	MA 2810
		149 Ridge Rd., Rutherford, N.J.	
		3455 Hutchison St., Montreal	PL 1712
		Chipman, N.B.	
		520 Milton St., Montreal	MA 9789



# DIRECTORY OF STUDENTS

673

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
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Where two addresses are given, the second is the home address

Baker, Howard M. A.	Com. 4	3571 Hutchison St., Montreal	HA 3400
Baker, Kenneth G. K.	Arts 3	3429 Peel St., Montreal	UP 5947
Baker, Lauchlin J.	Med. 3	545 Pine Ave. W., Montreal	MA 1545
		310 Franklin St., Ogdensburg, N.Y.	
Baker, Ruth D.	Arts 1	516 Victoria Ave., Westmount, Que.	WE 7800
Balinsky, Lawrence S.	Ap. Sci. 2	6082 Hutchison St., Montreal	AT 3153
Balkwill, Mildred C.	Phy. Ed. 1	3466 University St., Montreal	MA 2608
		76 W. Sixth Ave., Vancouver, B.C.	
Ball, Mildred A.	Arts 3	5341 Terrebonne Ave., Montreal	EL 4529
		Box 262, Magog, Que.	
Ball, Ralph Henry	Grad. Sch.	3647 University St., Montreal	MA 2806
Ball, William L.	Arts 4	627 Carleton Ave., Westmount, Que.	WE 2053
Ballantyne, M. G.	Grad. Sch.	3484 Mountain St., Montreal	UP 3767
Balmer, Ian Argyle	Med. 5	3442 Durocher St., Montreal	MA 7939
		Tuxford, Sask.	
Band, Samuel	Ap. Sci. 2	362 Victoria Ave., Westmount, Que.	WE 6159
Banfill, Stanley M.	Med. 3	1216 Crescent St., Montreal	UP 0385J
		East Angus, Que.	
Barclay, Lynden H. W.	Arts 3	460 Prince Arthur St., Montreal	MA 2663
		8 Woodlawn Ave., Ottawa, Ont.	
Barclay, William A.	Com. 4	5417 Esplanade Ave., Montreal	CR. 2236
Barker, Charles S.	Med. 4	3438 Walkley Ave., Montreal	WA 0899M
Barker, Walter E.	Grad. Sch.	544 Prince Arthur St. W., Montreal	MA 9021
		Chapleau, Ont.	
Barnes, Alan T.	Arts 1	637 Grosvenor Ave., Westmount, Que.	EL 6763
Barnes, Annie K. C.	Arts 2	3500 Durocher St., Apt. 5, Montreal	MA 2077
Barnes, Wilfred L.	Com. 2	637 Grosvenor Ave., Westmount, Que.	EL 6763
Barnhill, Brunswick A.	Arts 2	11750 Notre Dame St. E., Montreal	Pte aux Trl. 267J
Baron, Edgar A.	Arts 4, Med. 1	791 Outremont Ave., Outremont, Que.	AT 4131
Barry, Arthur W.	Arts 1	4215 Dorchester St. W., Westmount, Que.	WE 5084
Barry, Donald J. O.	Ap. Sci. 1	1545 Mackay St., Montreal	UP 6610
Barsha, Jacob	Grad. Sch.	149 Laurier Ave. W., Montreal	CR 4576
Bartlett, Leonard S.	Med. 3	5992 Park Ave., Montreal	AT 0477J
		Brownsville, Ont.	
Barza, David	Med. 5	3666 Drolet St., Montreal	HA 8457
Barza, Jack	Arts 1	3666 Drolet St., Montreal	HA 8457
Bates, Clarence L.	Med. 2	772 Sherbrooke St. W., Montreal	LA 1567
		Dundas, Ont.	
Batshaw, Frances G.	Arts 3	5829 Hutchison St., Montreal	CR 6452
Baugh, Grace M.	Arts 2	7469 Durocher Ave., Montreal	AT 6581
		96 Dufferin Rd., Valleyfield, Que.	
Bavitch, Lazarus	Arts 4	4092 Clarke St., Montreal	BE 6633F
Baxt, Lawrence M.	Arts 2	3505 Lorne Ave., Montreal	MA 2849
		366 Frank St., Ottawa, Ont.	
Baxter, H. A.	Grad. Sch.	3506 University St., Montreal	MA 2816
Baxter, Robert Gordon	Arts 2	188 St. Denis Ave., St. Lambert, Que.	St. L. 935
Baxter, Stewart Gardner	Grad. Sch.	3506 University St., Montreal	MA 2816
Bazar, Bernard	Arts 3	383 Edward Charles St., Apt. 3, Montreal	DO 8535
Bazar, Philip S.	Arts 3	708 De L'Épée Ave., Outremont, Que.	AT 5454
Bazin, Cynthia H.	Arts 1	4064 Dorchester St. W., Westmount, Que.	WE 2165
Bean, Carol M.	Arts 3	1539 Bishop St., Montreal	UP 2679
		The Falls, Shawinigan Falls, Que.	
Beatty, George E.	Com. 4	495 Prince Arthur St. W., Apt. 26, Montreal	MA 3357
		Yokohama, Japan	
Beaugie, Mavis L.	Arts 4	5354 Durocher Ave., Outremont, Que.	AT 0956
Beaucherne, Guy L.	Com. 2	1771 St. Hubert St., Montreal	FR 0109
Beauchamp, Estelle L.	Phy. Ed. 1	4367 Girouard Ave., Montreal	EL 5402
Becket, R. Wilson	Arts 4	4 Selkirk Ave., Apt. 2, Montreal	FI 1570
Beeson, Paul B.	Med. 3	640 Prince Arthur St. W., Montreal	MA 9531
		Ketchikan, Alaska	
Belanger, Georges G.	Arts 1	5462 Esplanade Ave., Montreal	CR 0113
Belanger, Jacques	Arts 2	1527 Crescent St., Montreal	UP 8678
Belitzky, Jack T.	Arts 2	4071 St. Urbain St., Montreal	BE 6609W
Bell, Florence M. L.	Arts 3	755 Upper Lansdowne Ave., Westmount, Que.	EL 5681



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Bell, George M.	Com. 3	3483 Peel St., Montreal	UP 3215
Bell, Ruth W.	Arts P.	3410 Atwater Ave., Apt. 2, Montreal	
Belloc, Hilary A.	Ap. Sci. 3	3564 Durocher St., Montreal	MA 2789
		Shipley, Horsham, England	
Belnap, Celeste V.	Arts 4	558 Roslyn Ave., Westmount, Que.	WE 1909
Bennett, George F.	Ap. Sci. 4	1126 Sherbrooke St. W., Apt. 1, Montreal	LA 5598
		396 Lyon St., Ottawa, Ont.	
Bennett, Leslie Francis	Grad. Sch.	497 Galt Ave., Verdun, Que.	YO3139F
		Bishops Crossing, Que.	
Bennett, Phyllis L. G.	Arts 1	3487 Northcliffe Ave., Montreal	WA 2906
Bennett, Robert D.	Ap. Sci. 3	4643 Park Ave., Montreal	BE 2909
Bennetts, Richard C.	Med. 3	3529 University St., Montreal	MA 9031
		Nevada City, Cal.	
Benning, Paulette	Grad. Sch.	131 De L'Épée Ave., Outremont, Que.	AT 2102
Benny, Walter R.	Ap. Sci. 3	3550 Shuter St., Montreal	MA 7297
		85 Bellwood Ave., Ottawa, Ont.	
Benoit, Andre P.	Ap. Sci. 1	487 Prince Arthur St. W., Montreal	MA 1418
Benson, Norman L.	Arts 1	2284 Wilson Ave., Montreal	WA 1105
Ber, Abraham S.	Ap. Sci. 2	4538 Park Ave., Montreal	DO 9621
Berchtold, Frieda	Arts 3	680 Maplewood Ave., Montreal	EL 3686
Bercovici, Ethel	Arts 4	3525 Durocher St., Apt. 90, Montreal	MA 2791
Bercovitz, George D.	Arts 4	5062 Notre Dame de Grace Ave., Montreal	WE 3389
Bercovitz, Ruth B.	Com. 2	5062 Notre Dame de Grace Ave., Montreal	WE 3389
Bercovitz, Sylvia	Arts 2	740 Bloomfield Ave., Outremont, Que.	AT 7508
Bercu, George	Arts 4	4458 De Bullion St., Montreal	BE 2431M
Berger, Edward S.	Arts 4	4176 City Hall Ave., Montreal	BE 4960
Berger, Irvin J.	Arch. 4	1188 Sherbrooke St. W., Montreal	MA 7351
		321 W. 78th St., New York City	
Berger, Julius	Grad. Sch.	102 Grey Ave., Montreal	WA 2551
Bergithon, Carl	Grad. Sch.	47 Holton Ave., Westmount	WE 9302
Berman, Alfred	Grad. Sch.	1441 Drummond St., Montreal	AT 2876
Bernard, Jacques J.	Com. 2	49 Maplewood Ave., Montreal	BE 7918
Bernstein, Alan L.	Arch. 2	4127 St. Lawrence Blvd., Montreal	FI 9130
Bernstein, E. Leonard	Arts 4, Med. 1	480 Wood Ave., Westmount, Que.	FI 9130
Berry, John W.	Arts 3	2506 University St., Montreal	
		London, England	
Beswick, Wenonah P.	Arts 3	483 Strathcona Ave., Westmount, Que.	WE 1189
Beiler, Marguerite G.	Arts 2	12256 Ranger St., Cartierville, Que.	BY 1813
Bierbrier, Lillian	Com. 2	379 Durocher St., Outremont, Que.	CR 3098
Biggar, Horace W.	Com. 4	3609 University St., Montreal	MA 4300
		112 E. San Rafael St., Colorado Springs, Colo.	
Billette, Roger	Ap. Sci. 4	3699 Jeanne Mance St., Montreal	HA 4756
		Valleyfield, Que.	
Billingsley, Lawrence W.	Arts 3	628 Grosvenor Ave., Westmount, Que.	EL 3660
Binmore, Mary	Grad. Sch.	3596 Northcliffe Ave., Montreal	WA 5478
Binnie, James C.	Law 2	3605 University St., Montreal	HA 3101
		563 Grosvenor Ave., Westmount, Que.	HA 3101
Birnie, Garfield S.	Com. 4	603 Lansdowne Ave., Westmount, Que.	WE 2203
Bishop, Ross M.	Arts 1	Apt. 7, 3578 Shuter St., Montreal	MA 7408
		Bishop's Crossing, Que.	
Bishop, Wm. S.	Grad. Sch.	3506 University St., Montreal	MA 2055
Bisson, Margaret M.	Grad. Sch.	670 Northmount Ave., Montreal	EL 2978
Bisson, Russell D. A.	Med. 5	3442 Durocher St., Montreal	MA 8838
		Rossland, B.C.	
Bissonnet, Mary Elizabeth	Arts 4	Royal Victoria College, Montreal	MA 2810
		Stanstead, Que.	
Blanchford, Henry E.	Ap. Sci. 4	7 Hudson Ave., Montreal	WE 4755
Black, David H.	Med. 2	4560 St. Catherine St. W., Apt. 7, Westmount, Que.	WE 5534
Black, Donald H. B.	Arts 3	3581 University St. Montreal	WE 5467
		40 Forden Crescent, Westmount, Que.	



# DIRECTORY OF STUDENTS

675

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address

Black, Ernest G.	Com. 3	4560 St. Catherine St. W., Westmount, Que.	WE 5534
Black, John G.	Arts 2	625 Murray Hill, Westmount, Que.	WE 7999
Bladon, Leigh Watson	Grad. Sch.	85 Holton Ave., Westmount, Que.	FI 1638
Blair, Donald L.	Arch. 4	3605 University St., Montreal	MA 3103
Blair, Marion A. N.	Arts P.	P.O. Box 281, Ottawa, Ont.	
Blake, Earl M.	Med. 2	4205 Marcl Ave., Montreal	WA 8153W
		772 Sherbrooke St. W., Montreal	LA 1567
		Waterloo, Que.	
Blakely, Malcolm H.	Com. 1	4130 Decarie Blvd., Montreal	WA 8768M
Blanchard, Nancy D.	Arts P.	480 Victoria Ave., Westmount, Que.	WE 2949
Bland, John	Arch. 3	1197 Guy St., Montreal	FI 6210
Blau, Abraham	Med. 5	408 Wiseman Ave., Montreal	AT 7603
Blaylock, Peter W.	Arts 1	2 Holton Ave., Westmount, Que.	WE 5375
Blond, Harry H.	Med. 5	661 Querbes Ave., Apt. 5, Outremont, Que.	AT 3376
Blond, Irwin B.	Law 3	661 Querbes Ave., Apt. 5, Outremont, Que.	AT 3376
Bloom, Joseph	Med. 2	3951 De Bullion St., Montreal	LA 9309
Bloomfield, Morton W.	Arts 1	4378 Western Ave., Westmount, Que.	WE 3941
Blumberg, Perry	Med. 4	3419 University St., Montreal	MA 3089
		1562 Ocean Ave., Brooklyn, N.Y.	
Blumenthal, Estelle Helen	Arts 3	63 Strathearn Ave., Montreal West	WA 2073
Blumer, Moe	Arts 1	3415 Vendome Ave., Montreal	WA 5246
Blundell, Stanley F.	Med. 3	3710 Jeanne Mance St., Montreal	WE 5691
		Victoria, B.C.	
Boehmer, Margaret E.	Music	825 Grosvenor Ave., Montreal	EL 1815
Bogert, Mortimer P.	Arts P.	1227 Sherbrooke St. W., Montreal	UP 6240
Boggs, Robert K.	Med. 3	640 Prince Arthur St. W., Montreal	MA 9531
		Multnomah Club, Portland, Oregon	
Bolton, Arthur H.	Arts 4	577 Roslyn Ave., Westmount, Que.	WE 1057
Bolton, Edith E.	Grad. Nurse	3512 Shuter St., Montreal	MA 8935
		Brampton, Ont.	
Bonar, Jean M.	Arts 4	611 Lansdowne Ave., Westmount, Que.	WE 5962
Bondar, Harry K.	Med. 4	2026 McGill College Ave., Montreal	LA 8610
		1826 E. 9th St., Brooklyn, N.Y.	
Bonner, Harold C.	Med. 3	640 Prince Arthur St. W., Montreal	MA 9531
		165 Wellington Ave., Rochester, N.Y.	
Boosamra, Albert A.	Com. 1	332 St. Catherine Road, Montreal	AT 0448
Booth, Dorothy T.	Com. 2	4704 Adam St., Montreal	CL 0405
Booth, John R.	Arts 1	3651 St. Urbain St., Montreal	PL 5660
Boothman, Alfred S.	Dent. 4	2070 Union Ave., Montreal	
		4873 Ross St., Vancouver, B.C.	
Boright, Raymond K.	Ap. Sci. 1	3530 Durocher St., Montreal	MA 4001
		Sutton, Que.	
Boronow, Newton R.	Arts 1	Chateau Apts., Sherbrooke St. W., Montreal	UP 4342
Boswell, Henry A.	Med. 5	3410 Atwater Ave., Westmount, Que.	FI 2716
		206 Second Ave., Troy, N.Y.	
Bouchard, Valmer D.	Arch. 5	3429 Peel St., Montreal	UP 5947
		Sherbrooke, Que.	
Boucher, Raymond A.	Arts 4	3433 Shuter St., Montreal	MA 6935
		367 Elm St., Woonsocket, R.I.	
Boulkind, Henry N. F.	Arts 3	3287 Grey Ave., Montreal	WE 2687
Boulkind, Mabel	Arts 1	3787 Grey Ave., Montreal	WE 2687
Boulton, Arthur M.	Law 1	3436 Durocher St., Montreal	MA 3101
		5 College Court, Quebec, Que.	
Bourdeau, Napoleon	Com. 1	304 Sherbrooke St. West	HA 5597
		St. Johns, Que.	
Bourdon, Edward C.	Arts 1	4998 Connaught Ave., Montreal West	WA 2219
Bourne, Frederick M.	Arts 4	2310 Dorchester St. W., Montreal	WI 2910
Bourne, Mary K.	Arts 1	Royal Victoria College, Montreal	MA 2810
		Central Romana, La Romana, R.D.	
Bourne, Marjorie B.	Arts 1	Royal Victoria College, Montreal	MA 2810
		Central Romana, La Romana, R.D.	
Bourque, Philippe	Ap. Sci. 2	3567 Park Ave., Montreal	PL 1324
		1000 Lancaster Bldg., Calgary, Alta.	
Bowman, Robert T.	Com. 3	3434 McTavish St., Montreal	UP 8633
		Cloverdale Rd., Rockcliffe, Ont.	



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Box, William E.	Arts 2	900 Sherbrooke St. W., Montreal Ridgeville, Ont.	LA 8517
Boxer, Maurice J.	Arts 1	3776 De Bullion St., Montreal	PL 6030
Boyd, Alvie R. J.	Med. 5	3483 Peel St., Montreal	UP 3215
Boyd, Helen Frances	Arts 1	509 Fifth Ave. N., Saskatoon, Sask.	WA 2132
Boyd, Laurence G.	Ap. Sci. 1	177 Grand Blvd., Montreal	Lach.1702
Boyd, Robert W.	Med. 5	122 George 5th Ave., Lachine, Que.	MA 9524
Boyer, Raymond	Grad. Sch.	3467 Shuter St., Montreal	UP 2811
Brabander, Hilde H. D. B.	Com. 1	311, 2nd St., Medicine Hat, Alta.	AT 1275
Brabander, Joachim O. W.	Med. 4	3552 Mountain St., Montreal	AT 1275
Bradley, Helen M.	Com. 1	381 Maplewood Ave., Montreal	MA 1439
Brandes, Jack S.	Med. 3	493 Sherbrooke St., Montreal	BE 2759
Brandon, Dudley A. P.	Arts 2	190 Holmwood Ave. Ottawa, Ont.	LA 2808
Bray, Alton C.	Grad. Sch.	245 Villeneuve St. W., Montreal	LA 4573
Bray, Dallas G.	Arts 1	3775 Arcade St., Montreal	LA 4573
Bray, Harold P.	Arts 1	c/o H. M. Customs, Kingston, Jamaica, B.W.I.	UP 2143
Breakey, Andrew	Arts 4	256 Durocher Ave., Outremont, Que.	UP 2143
Brenhouse, Samuel E.	Arts 2	3609 University St., Montreal	BE 2148
Brennan, Florence M.	Arts 3	30-48, 36th St., L.I.C., New York	WE 5652
Briand, Ludger J.	Grad. Sch.	3609 University St., Montreal	WE 8849
Brice, Elizabeth M.	Arts 1	3478 McTavish St., Montreal	LA 6582
Brifman, Jack S.	Phar. 3	Chaudiere House, Breakeyville, Que.	WE 1969
Brisbane, Marion L.	Arts 4	4301 Esplanade Ave., Montreal	WE 1969
Brock, Ollie	Arts P	73 Hallowell Ave., Westmount, Que.	EL 6805
Brockway, Katherine A.	Arts 3	1757 Galt Ave., Cote St. Paul, Que.	EL 6805
Brockwell, Charles G. B.	Arts 1	4449 Montrose Ave., Westmount, Que.	LA 553V
Broderick, George N.	Arts 4	3500 City Hall Ave., Montreal	WA 4307
Brodie, Bernard	Arts 4	452 Strathcona Ave., Westmount, Que.	WA 2812
Brodie, Maurice	Grad. Sch.	287 Prince Arthur St., Montreal	WA 2812
Brody, Selwyn	Arts 3	Que.	CR 3651
Bronfman, Rona L.	Arts 3	Glen Sutton, Que.	CR 3651
Brooks, Paul Lester	Med. 4	1421 Queen Mary Rd., Montreal	FI 1639
Brooks, Randall H.	Med. 4	White River Jct., Vt.	MA 2704
Brooks, Samuel	Arts P	15 St. Charles Ave., Dorval, Que.	HA 0945
Broome, Edward P.	Com. 1	68 Draper Ave., Montreal	MA 2720
Brophy, James P.	Com. 2	2066 Decarie Blvd., Montreal	MA 3842
Brophy, Robert L.	Com. 1	132 The Driveway, Ottawa, Ont.	WE 2992
Brown, Alexander Binnie	Grad. Sch.	3433 Shuter St., Montreal	WE 2992
Brown, Allan T.	Arts 3	132 Driveway, Ottawa, Ont.	HA 8573
Brown, B. Stanley W.	Med. 2	1045 St. Viateur St. W., Montreal	MA 2720
Brown, Constance B.	Arts 1	Glac Bay, N.S.	WA 0554
Brown, Dorothy B.	Arts 3	49 Rosemount Ave., Westmount, Que.	WA 3138
Brown, Edward E.	Ap. Sci. 3	2019 Peel St., Montreal	WA 9686
Brown, Ernest F.	Ap. Sci. 1	60 Clinton St., Portland, Me.	DU 0192
Brown, George	Grad. Sch.	3588 Clarke St., Montreal	DU 0192
Brown, George D.	Med. 1	163 Dundee St., Edinburgh, Scotland	WE 9151W
		3485 McTavish St., Montreal	HA 7437
		306 Wilson Ave., Montreal	HA 7437
		152 Easton Ave., Montreal West	HA 7437
		4077 Marcell Ave., Montreal	HA 7437
		11771 Poincare St., Bordeaux, Que.	HA 7437
		11771 Poincare St., Bordeaux, Que.	HA 7437
		55 Bruce Ave., Westmount	HA 7437
		522 Prince Arthur St. W.	HA 7437
		1798 W. 5th St., Brooklyn, N.Y.	HA 7437



# DIRECTORY OF STUDENTS

677

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Brown, Helen T.	Arts 1	58 Nelson Ave., Montreal	DO 6571
Browne, John S. L.	Grad. Sch.	3619 Oxenden Avenue, Montreal	MA 3076
Brownrigg, Garrett M.	Med. 4	3477 Shuter St., Apt. 6, Montreal	MA 2908
Brownrigg, Leslie W.	Med. 4	St. John's, Newfoundland	
Bruce, Alice S.	Arts 3	990 Cherrier St., Montreal	FR 4710
Bruce, Ronald M.	Arts 2	Chamcook, N.B.	
*Bruker, Samuel	Law 2	2237 Madison Ave., Montreal	WA 0355
Brumell, Orby R.	Ap. Sci. 1	3523 Lorne Ave., Montreal	MA 6913
Bryson, Margery A.	Arts 1	Huntingdon, Que.	
Bub, Mary F.	Phy. Ed. 2	234 Villeneuve St. W., Montreal	BE 6816
Buchanan, Victor	Arts P.	902 Burnside Place, Montreal	LA 6341
Buell, Robert O.	Arts P.	7 Peronne Ave., Outremont, Que.	AT 4201
Buffam, G. B. Bonar	Med. 1	3466 University St., Montreal	MA 2608
Bugden, Wilson A.	Arts P.	39 Roosevelt Ave., Poughkeepsie, N.Y.	
Bulloch, Christine M.	Arts 1	United Theological College, University St., Montreal	MA 2055
Bunting, Sidney S.	Arch. 1	5214 St. Denis St., Montreal	
Burgess, Eric L.	Arch. 2	Strathcona Hall, Montreal	LA 1567
Burke, George T.	Med. 5	Colombo, Ceylon	
Burko, Isabel	Music	3506 University St., Montreal	MA 2055
Burleson, Henry S.	Ap. Sci. 2	Box 267, Perth, Ont.	
Burman, Samuel Thomas	Theol.	3506 University St., Montreal	MA 2055
Burris, Margaret S.	Arts 4	English Harbor, Nfld.	
Bursell, H.	Theol. 3	67 Ballantyne Ave., N., Montreal	WA 6610
Bursey, Rev. H. R.	P. G. Theol.	West	
Burton, Rev. F. F.	P. G. Theol.	Apt. 1011, 1045 Drummond St.	HA 2657
Burton, F. R.	Grad. Sch.	Montreal	FI 1715
Burton, Garland G.	Grad. Sch.	1451 St. Mark St., Montreal	
Butler, Albert A.	Arts 4, Med. 1	67 Grove Ave., Ottawa, Ont.	
Butler, Catherine M.	Arts 2	3637 St. Famille St., Montreal	LA 5565
Butler, John A. T.	Ap. Sci. 1	149 St. Joseph Blvd., Montreal	BE 5009
Butler, Thomas R.	Law 2	3605 University St., Montreal	MA 3101
Butlin, Claude M. Jr.	Ap. Sci. 4	203 White Park Rd., Ithaca, N.Y.	
Butt, Herbert M.	Dent. 4	2016 University St., Montreal	
Butterfield, Dudley St. G.	Com. 1	3454 University St., Montreal	MA 2610
Byers, Alfred R.	Arts 3	Kamloops, B.C.	
Byers, Anne R.	Arts 2	3473 University St., Montreal	MA 4902
Byers, Donald N.	Arts 2	Ulverton, P.Q.	
Bynoe, Evan Theodore	Grad. Sch.	301 Fortune St., Montreal	WI 7454
Cahill, George	Com. 1	437 St. James St., Montreal	
Calder, Alice D.	Arts 4	Waterville, Que.	
Calder, Robert M., Jr.	Arts 2	585 Fortune St., Montreal	WI 7454
Calder, Thomas	Arts 2	Greensport, Nfld.	
Calhoun, Robert B.	Law 1	3818 Wilson Ave., Montreal	WA 4643W

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Call, Russell B.	Com. 4	McGill Union, 690 Sherbrooke St. W., Montreal	LA 7141
Cameron, Alexander J.	Ap. Sci. 3	Cookshire, Que.	
Cameron, Ernest R.	Arts 4	1940 Comte St., Montreal	WI 3058
Cameron, James B.	Arts 2	3464 Hutchison St., Montreal	MA 6689
Cameron, Janet M.	Arts 1	3464 Hutchison St., Montreal	MA 6689
Cameron, John Ross	Law 1	2071 Grey Ave., Montreal	WA 5305
Cameron, Kenneth N.	Arts 4	28 Summerhill Ave., Montreal	FI 2767
Cameron, Margaret B.	Arts 4	4787 Notre Dame St., E., Montreal	CL 2344
Cameron, Margaret E.	Arts 3	Royal Victoria College, Montreal	MA 2810
Campbell, Chester R.	Med. 4	51 Larch St., Halifax, N.S.	
		55 Trafalgar Ave., Westmount, Que.	WE 9988
		Strathcona Hall, Montreal	LA 1567
		9469 Springfield Blvd., Queens Village, L.I.	
Campbell, Evelyn M.	Lib. Sch.	3723 Mance St., Montreal	MA 2301
		Arichat, N.S.	
Campbell, George H. M.	Arts 1	644 Argyle Ave., Westmount, Que.	WE 5283
Campbell, Jean G.	Arts 3	Royal Victoria College, Montreal	MA 2810
		52 Ralph St., Ottawa, Ont.	
Campbell, Mary L.	Arts 4	609 Victoria Ave., Westmount, Que.	EL 6466
Cannell, Marjorie H.	Arts 4	117 Aberdeen Ave., Westmount, Que.	WE 6406
Caplan, Benjamin	Grad. Sch.	1227 Bernard Ave. Apt. 27, Montreal	AT 1980W
Caplan, Joseph	Ap. Sci. 1	4884 Hutchison St., Montreal	DO 2031
		Wildon, Sask.	
Caplan, Nathan H.	Arts 2	173 De L'Epee Ave., Outremont, Que.	AT 4609
Capper, Alfred H.	Ap. Sci. 1	4686 Westmount Ave., Westmount, Que.	WE 4784
Card, Lorne C.	Med. 5	640 Prince Arthur St. W., Montreal	MA 9531
		Melville, Sask.	
Cardonsky, Mary	Grad. Sch.	4609 Hutchison St., Montreal	DO 6748
Carl, S. C. E.	Grad. Sch.	2216 Tupper St., Montreal	WI 9204
Carlisle, Thomas H.	Arts 4	465 Lansdowne Ave., Westmount, Que.	WE 5658
Carlson, Leslie A.	Med. 3	5992 Park Ave., Apt. 12A, Montreal	AT 0477J
		1319 S. Lincoln St., Denver, Colo.	
Carmichael, Ralph M.	Arts 1	820 Troie Ave., Montreal	EL 2092
		Coaticook, Que.	
Carmichael, William R.	Arts 2	2491 Knox St., Montreal	
Caron, Raymond	Law 3	168 St. Catherine Road, Montreal	AT 0004
Carpenter, Lula A.	Grad. Sch.	939 Woodycrest Ave., New York, N.Y.	
Carrier, Phil. G.	Com. 3	6709 St. Denis St., Montreal	CA 9655
Carsley, Cecil F.	Arts 1	12 Aberdeen Ave., Westmount, Que.	WE 2944
Carswell, Hervey B.	Com. 2	2019 Stanley St., Montreal	UP 8633
		149 Daly Ave., Ottawa, Ont.	
Carter, Ernest C.	Arts 2	6900 Boyer St., Montreal	CA 7324
Carter, Eve G.	Arts 4	866 Stuart Ave., Outremont, Que.	AT 5468
Carter, Mary Elizabeth	Arts 1	536 Pine Ave., Montreal	MA 6467
Casey, Patrick E. E.	Arts 4	2314 Regent Ave., Montreal	WA 2876F
Cassidy, Helen I.	Music	159 Grand Boulevard, Montreal	WA 9992
Cathcart, Joseph	Arts P.	Presbyterian College, Montreal	MA 2720
		Albert Bridge P.O., C.B. N.S.	
Cazun d'Honincthun, Rene J.F.M.	Com. 1	Strathcona Hall, Montreal	LA 1567
		Lannigou, Finistere, France	
Cavanaugh, Thomas J.	Med. 1	5850 Waverley St., Montreal	CR 8139
		360 Union Ave., Framingham, Mass.	
Cerini, John M.	Arts 3	5605 Waverley St., Montreal	CR 4509
Chalk, Henry E.	Ap. Sci. 2	4951 Western Ave., Westmount, Que.	WE 2090
Challies, George S.	Arts 4	8 Grove Park, Montreal	FI 4424
Chalmers, George E. N.	Med. 3	3514 Lorne Ave., Montreal	MA 6743
		South Devon, N.B.	
Champagne, George A.	Ap. Sci. 3	6702 St. Valier St., Montreal	CA 2656
Chandler, Lemuel K.	Med. 1	772 Sherbrooke St. W., Montreal	LA 1567
		10 Park St., Barre, Vt.	
Chapin, Wight N.	Med. 1	252 Pine Avenue West, Montreal	HA 3889
		12 West Ave., Gr. Barrington, Mass.	
Chaplin, Frances C.	Arts 2	4379 Westmount Ave., Westmount, Que.	WE 3901
Chaplin, Herbert E.	Ap. Sci. 2	341 Westhill Ave., Montreal	WA 6399J
		Water St. E., St. John's, Nfld.	



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679

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Chapman, Charles B.	Ap. Sci. 3.	1427 Drummond St., Montreal.	MA 1836
Chapman, Joseph S.	Arts 1.	Camp Borden, Ont. 1271 Dorchester St. W., Apt. 3, Mont- real.	MA 8215 MA 4634
Chaput, Leandre A.	Com. 4.	3512 Durocher St., Montreal.	MA 4634
Charbonneau, J. Pierre.	Com. 3.	1022 Sherbrooke St. W., Montreal.	PL 6482
Chard, Harold.	Arts 3.	174 Clarence St., Ottawa, Ont.	
Charlap, Gregory.	Law 2.	241 Elm Ave., Westmount, Que. 397 St. Joseph Blvd. W., Apt. 10, Montreal.	WE 4447W DO 8728
Charlewood, Charles B.	Ap. Sci. 4.	411 E. 37th St., Paterson, N.J. 3605 University St., Montreal.	MA 3101
Chateauvert, Peter B. R.	Ap. Sci. 1.	2664 Orchard Ave., Victoria, B.C. 3429 Peel St., Montreal.	UP 5947
Cheifetz, Harry D.	Med. 5.	263 Laurier Ave., Quebec, Que.	
Chenell, Alwyn C.	Ap. Sci. 2.	5696 Esplanade Ave., Montreal.	CR 8812
Cherlabski, George.	Grad. Sch.	5831 Durocher Ave., Outremont, Que.	CR 5137
Chipman, Samuel G.	Ap. Sci. 1.	3667 St. Famille St., Montreal.	
Chipman, William W.	Law 2.	18 Brock Ave., S., Montreal West.	WA 1236
Chisholm, Helen W.	Com. 2.	142 Cote des Neiges Rd., Montreal.	UP 8637
Christmas, Kenneth E.	Com. 2.	144 Cote St. Antoine Road, West- mount, Que.	WE 2841
Church, Charles B. G.	Med. 4.	517 King Edward St., Ottawa, Ont. 222 Melville Ave., Westmount, Que.	WE 8126
Church, C. H. M.	Grad. Sch.	St. Hilaire, Que.	Bel. 91
Church, Dolly M.	Grad. N.	3637 University St., Montreal.	MA 1824
Church, Harry N.	Com. 3.	14 Powell Ave., Ottawa, Ont.	
Church, Robert D.	Arts 2.	900 Sherbrooke St. W., Montreal.	MA 9335
Cipriani, Andre J.	Arts 3.	Shriner's Hospital, Montreal.	UP 6121
Clancy, Mary C.	Soc. Workers 2.	Mount Julian, Ont.	
Clare, Charlotte L.	Soc Workers 1.	3637 University St., Montreal.	MA 1824
Clarholm, Victor.	Med. 5.	14 Powell Ave., Ottawa, Ont.	
Clark, Albert W.	Arts 4, Med. 1.	3637 University St., Montreal.	MA 1824
Clark, Annie B.	Arts 2.	14 Powell Ave., Ottawa, Ont.	
Clark, Edgar H., Jr.	Arts 1.	1808 St. Catherine St. W., Montreal.	FI 1704
Clark, James F.	Com. 3.	121 Henry St., Port of Spain, Trini- dad, B.W.I.	
*Clark, James R.	Ap. Sci. 3.	Apt. 11, 1550 Mackay St., Montreal.	FI 1686
Clark, Patricia.	Arts P.	Mulgrave, N.S.	
Clarke, Bruce P.	Ap. Sci. 1.	Montreal Day Nursery, 897 Lagau- chetiere St. W., Montreal.	LA 1042
Clarke, George F.	Ap. Sci. 4.	St. Andrews P.O., Man.	
Clarke, Jessie.	Arts 1.	1485 Fort St., Montreal.	WI 3521
Clarke, Mary.	Arts 2.	3635 Lorne Crescent, Montreal.	MA 8729
Clarke, Owen M.	Ap. Sci. 4.	Manawagonish Rd., Fairville, N.B.	
Clarke, Thomas R.	Arts P.	1447 Queen Mary Rd., Montreal.	EL 4100
Classey, Joseph H.	Arts 1.	3 Locust St., Amesbury, Mass.	
		3559 University St., Montreal.	MA 4418
		33 Ingram St., Forest Hills, N.Y.	
		1198 Mountain St., Montreal.	UP 2228
		2005, 16th Ave. W., Vancouver, B.C.	
		3519 Jeanne Mance St., Montreal.	
		102 Grant Ave., Hamilton, Ont.	
		483 Victoria Ave., Westmount, Que.	WE 2482
		1694 Lincoln Ave., Montreal.	FI 3364
		Lennoxville, Que.	
		1126 Sherbrooke St. W., Montreal.	LA 5598
		Worthy Park, Ewarton, Jamaica, B.W.I.	
		6721 Drolet St., Montreal.	CL 0339
		2143 Tupper St., Montreal.	WI 8802
		1126 Sherbrooke St. W., Apt. 1, Mont- real.	LA 5598
		Ewarton, Jamaica, B.W.I.	
		55 Brock Ave. N., Montreal West.	WA 5157
		3701 Laval Ave., Montreal.	HA 5619
		Thornhill, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Clay, Clement C.	Med. 4	3467 Shuter St., Montreal	MA 9524
		190, 5th St. N.W., Atlanta, Ga.	
Clayman, William	Com. 3	5247 Hutchison St., Montreal	CR 6184
Cleland, Frederick D.	Arts 1	5670 Mance St., Montreal	CR 0212
Clift, Erol B.	Arts 2	4573 Sherbrooke St. W., Westmount, Que.	WE 2667
Clinger, Orris W.	Med. 2	640 Prince Arthur St., Montreal	MA 9534
		Tidioute, Pa.	
Clogg, Lorna M.	Arts 1	1 Murray Ave., Westmount, Que.	WE 6185
Close, John F.	Ap. Sci. 1	1028 Sherbrooke St. W., Montreal	LA 0734
		95E Matthews Gardens, St. Leonards, Sussex, England	
Clouston, Janet S.	Arts 2	521 Prince Arthur St., Montreal	MA 8847
Coade, Emma Laurine	Grad. Sch.	Ford Hotel, Montreal	UP 7020
Cobbett, Stuart A.	Com. 3	4209 Oxford Ave., Montreal	WA 0874
Coblentz, Max	Law 2	5923 Clarke St., Montreal	CR 8241
Cockburn, Nora E.	Grad. Nurse	4459 Western Ave., Westmount, Que.	WE 0616
Cockerton, Egbert E.	Arts 3	Springfield Park, Co. Chambly, Que.	
Cockram, W. Ewart	Theol. 2	3572 Lorne Ave., Montreal	MA 1831
Coffin, Tristram E.	Ap. Sci. 1	1841 St. Clement St., Montreal	CL 2251
Cohen, Abraham D.	Com. 3	4097 St. Lawrence Blvd., Montreal	BE 3340W
Cohen, Abraham I. F.	Com. 4	4638 Jeanne Mance St., Montreal	BE 6214
Cohen, Arthur	Arts 2	129 St. Joseph Blvd. W., Montreal	BE 2336
Cohen, Arthur E.	Arts 4	571 Grosvenor Ave., Westmount, Que.	WE 1544
Cohen, Bernard B.	Law 3	5297 Jeanne Mance St., Montreal	CR 1538
Cohen, Edgar H.	Arts 1	571 Grosvenor Ave., Westmount, Que.	WE 1544
Cohen, Harold	Med. 4	4009 Henri Julien St., Montreal	PL 2942
Cohen, Irwin B.	Law 2	808 Cote St. Antoine Rd., Montreal	WA 4138
Cohen, Jason J.	Arts 3	3777 Grey Ave., Montreal	WE 6348
Cohen, Joseph M.	Arts 4	4863 Esplanade Ave., Montreal	BE 4597M
Cohen, Lionel	Med. 5	3595 St. Famille St., Montreal	PL 3718
Cohen, Morris	Med. 2	4307 Esplanade Ave., Montreal	BE 2457
Cohen, Riva	Arts 4	571 Grosvenor Ave., Westmount, Que.	WE 1544
Cohen, Sam	Arts 2	4307 Esplanade Ave., Montreal	BE 2451
Cohen, Sylvia	Arts 4	25 Rosemount Ave., Westmount, Que.	FI 4429
Cohen, William	Med. 3	3595 St. Famille St., Montreal	PL 3718
Coldwell, Edgar W.	Arts 3	16 Selby St., Westmount, Que.	WI 5016
Cole, Alfred H. P.	Arts 1	314 Broadway, Lachine, Que.	Lach. 271
Coleman, James A.	Arts 2	3605 University St., Montreal	MA 3101
		Royal Alexandra Hotel, Winnipeg, Man.	
Coleman, Robert S.	Arts 1	78 Selby St., Montreal	WI 2294
		242 Franklin St. W., Bound Brook, N.S.	
Collard, Edmund G.	Arts 4	4198 West Hill Ave., Montreal	WA 1707
*Colley, Edith D. F.	Arts 3	396 Grosvenor Ave., Westmount, Que.	WE 7495
Colley, Louise A.	Phy. Ed. 1	396 Grosvenor Ave., Westmount, Que.	WE 7495
Collins, Fred G.	Com. 4	453 Wiseman Ave., Outremont, Que.	AT 2633
Collins, Gerald M.	Com. 4	446 Lansdowne Ave., Westmount, Que.	WE 3635
Collins, Thomas G.	Ap. Sci. 4	3535 Shuter St., Montreal	PL 1743
		14 River Rd., Eastview, Ottawa, Ont.	
Collyer, Ralph J. O.	Arts 1	4029 Dorchester St. W., Westmount, Que.	WE 0937
Coman, Dale R.	Med. 3	2064 Mansfield St., Montreal	LA 6825
		Wakefield, R.I.	
Condon, William B.	Med. 3	1028 Sherbrooke St. W., Montreal	LA 0734
		335 Cobbs Hill Dr., Rochester, N.Y.	
Conklin, Harold E.	Com. 4	1530 Bernard Ave., Montreal	AT 1961
Connell, F. Ralph	Med. 5	539 Pine Ave., Montreal	MA 7818
		72 Sydney St., Saint John, N.B.	
Conner, Howard A. D.	Ap. Sci. 2	3485 McTavish St., Montreal	MA 2720
		32 Queen St., Sherbrooke, Que.	
Connors, Vara McNiel	Grad. Sch.	1344-N. Elwood, Tulsa, Okla.	
Conroy, James B.	Arts 3	561 Connaught Ave., Montreal	WA 6705
Cook, George A. D.	Arts 1	1545 Drummond St., Montreal	
Cook, John B.	Arts 2	1434 Sherbrooke St. W., Montreal	UP 5639
		157 Cedar St., Sudbury, Ont.	

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681

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Coolican, Denis M.	Ap. Sci. 2	3647 University St., Montreal 21 Linden Terrace, Ottawa, Ont.	MA 2806
Cooper, Blema B.	Arts 3	26 Joyce Ave., Outremont, Que.	AT 3702
Cooper, Charles E.	Med. 2	3529 University St., Montreal 120 W. Highland Dr., Seattle, Wash.	MA 9031
Cooper, D. le B.	Grad. Sch.	1429 Stanley St., Montreal 43 South Park St., Halifax, N.S.	MA 9542
Cooper, John Joseph	Arts 1	19 Brodeur St., Montreal	EL 6169
Cooper, Lawrence O'Toole	Grad. Sch.	3433 Shuter St., Montreal Schumacher, Ont.	MA 6935
Copnick, Irving	Dent. 2	4018 City Hall Ave., Montreal	LA 9904
Corbet, A. A. Gordon	Med. 4	3483 Peel St., Montreal 64 Coburg St., Saint John, N.B.	UP 3215
Corbet, Campbell V. B.	Com. 1	Strathcona Hall, Montreal 1201 6th St. W., Calgary, Alta.	LA 1567
Corby, William J.	Com. 2	2035 Grey Ave., Montreal Britannia Heights, Ottawa, Ont.	WA 6513
Corcoran, Arthur C.	Med. 2	3660 Lorne Crescent, Montreal	MA 2596
Cornell, Douglas A.	Arts 2	650 Grosvenor Ave., Westmount, Que.	EL 4964
Cornell, Latham D.	Arts 2	3447 Hingston Ave., Montreal	WA 1231
Corrigall, James A. S.	Arts 1	70 Cedar Ave. Montreal	UP 3773
Cossman, Ethel	Soc. Workers 1	4072 Northcliffe Ave., Montreal	WA 6085
Cossman, Eva E.	Arts 2	4072 Northcliffe Ave., Montreal	WA 6085
Costello, Herbert M.	Arts 4	5443 Jeanne Mance St., Montreal	CR 3734
Costello, Robert E. E.	Arts 1	221 Clarke Ave., Westmount, Que.	WE 9458
Cotton, Hilda Eleanor	Arts 1	338 Metcalfe Ave., Westmount, Que.	WE 4535
Counsell, Eric Marshall	Grad. Sch.	407 Prince Arthur St. W., Montreal	
Couper, W. Mason Jr.	Med. 3	779 Upper Roslyn Ave., Westmount, Que.	EL 4639
Cousens, Kingsley E.	Com. 4	3434 McTavish St., Montreal 188 Stewart St., Ottawa, Ont.	UP 8633
Coussirat, John H.	Com. 2	1176 Sherbrooke St. W., Montreal 60 Hicks St., Brooklyn, N.Y.	MA 1447
Covicy, Harry	Phar. P	1060 Van Horne Ave., Apt. 3, Outre- mont, Que.	AT 2662J
Covshoff, Solomon	Law 1	1069 Laurier Ave. W., Montreal	CR 8640
Cowan, George G.	Ap. Sci. 2	3420 Hutchison St., Montreal Topsail Rd., St. John's, Nfld.	LA 0442
Coyle, Edith T.	Arts 4	1172 Forfar St., Montreal	
Crabtree, Dorothy L.	Arts 2	768 Cote St. Antoine Rd., Montreal	WA 6263
Crabtree, Herbert R.	Com. 3	46 Curzon St., Montreal West	WA 3609
Craick, Marion B.	Arts 4	3454 University St., Montreal 60 Lymstone Ave., Toronto, Ont.	MA 2610
Craig, Beulah	Com. 3	Royal Victoria College, Montreal Port Colborne, Ont.	MA 2810
Craig, Carleton	Ap. Sci. 2	1535 St. Mark St., Montreal 309 Somerset St., Ottawa, Ont.	FI 7374
Craig, Gibson E.	Com. 3	3581 University St., Montreal Carleton Place, Ont.	MA 3842
Craig, G. H.	Grad. Sch.	2011 Mansfield St., Montreal 9838-113 Street, Edmonton, Alta.	LA 3780
Craig, Robert H.	Com. 1	1130 Sherbrooke St. W., Montreal	LA 0657
Cralmer, Harry	Com. 2	3438 St. Dominique St., Montreal	
Crain, Reginald A.	Ap. Sci. 4	3647 University St., Montreal 285 Clemow Ave., Ottawa, Ont.	MA 2806
Cram, Ebenezer J.	Med. 4	3420 Hutchison St., Montreal Green's Harbour, Trinity Bay, Nfld.	HA 3979
Cram, Mildred E.	Soc. Workers 2	1205 Bishop St., Apt. 4, Montreal Green's Harbour, Trinity Bay, Nfld.	UP 4379
Cram, Sophie B.	Grad. Nurse	1205 Bishop St., Apt. 4, Montreal Green's Harbour, Trinity Bay, Nfld.	UP 4379
Cramer, Harry I.	Arts 2	3438 St. Dominique St., Montreal	
Crane, Barbara	Med. 1	3559 University St., Montreal Dalton, Mass.	MA 4419
Crawford, James Merrill	Grad. Sch.	106 Lewis Ave., Westmount, Que. Howick, Que.	WE 7762W
Crawford, Robert C.	Arts 2	734 Upper Lansdowne Ave., West- mount, Que.	EL 3407
Creasy, Beatrice E.	Grad. Nurse 1	1201 Dorchester St. W., Montreal Arborsfield, Sask.	MA 7366



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Creighton, Carrol Clark	Med. 3	640 Prince Arthur St. W., Montreal	MA 9531
		1202 E. Thomas Rd., Phoenix, Ariz.	
Creighton, Samuel A.	Med. 1	1028 Sherbrooke St. W., Montreal	LA 0734
		Woodstock, N.B.	
Cressman, Homer W. J.	Grad. Sch.	1006 Sherbrooke St., Montreal	LA 9632
Cripps, Samuel	Arts 4, Dent. 1	5146 Casgrain St., Montreal	BE 7579J
Cronyn, Hume	Com. 1	3605 University St., Montreal	UP 1477
		Woodfield, London, Ont.	
Cropper, James P. E.	Ap. Sci. 4	3667 Jeanne Mance St., Montreal	HA 5427
		Kingstown, St. Vincent, B.W.I.	
Cross, Douglas H.	Ap. Sci. 1	3581 University St., Montreal	MA 3842
		80 Montreal St., Sherbrooke, Que.	
Crossland, Charles W.	Ap. Sci. 4	1445 Metcalfe St., Montreal	LA 9982
		Box 754, Barrie, Ont.	
Crossley, Robert H.	Arts 1	8023 Western Ave., Montreal West	WA 5581W
Crown, Ernest H.	Com. 3	6777 St. Hubert St., Montreal	CA 9170
Crozier, Leigh J.	Med. 1	3485 McTavish St., Montreal	MA 2720
		Darnley, P.E.I.	
Cruikshank, Marian G.	Grad. Sch.	1001 Sherbrooke St. W., Montreal	UP 9125
		21 Hackfeld Rd., Worcester, Mass.	
Crutchfield, William I. N.	Ap. Sci. 1	3647 University St., Montreal	MA 2806
		109 Cascade Ave., Shawinigan Falls, Que.	
Crutchlow, Everett F.	Arts 2	660 Lansdowne Ave., Westmount, Que.	EL 5964
Cullen, Bernard L.	Med. 5	3455 Hutchison St., Montreal	PL 1712
		112 Fulton St., Auburn, N.Y.	
Cumming, John E.	Ap. Sci. 3	1255 Bishop St., Montreal	UP 9383
Cummings, Vincent P.	Med. 5	3419 University St., Montreal	MA 3089
		24 Frederick St., North Adams, Mass.	
Cunliffe, Mary	Arts 3	282 De L'Épée Ave., Outremont, Que.	AT 0991
Cunningham, Grace A.	Arts 1	3454 University St., Montreal	MA 2610
		Huntingdon, Que.	
Cunningham, Harold E.	Ap. Sci. 4	455 Elm Ave., Westmount, Que.	WE 7708W
Currie, Cecil	Arts 3	3585 Durocher St., Montreal	HA 7638
		Britannia, Trinity Bay, Nfld.	
Currie, Garner O.	Arts 2	3450 McTavish St., Montreal	UP 4053
Curtis, L. A. Donald	Arts 3	3506 University St., Montreal	MA 2055
		Blackhead, Nfld.	
Cushing, Dorothy M.	Arts 2	3258 Westmount Blvd., Westmount, Que.	WE 2699
Dahlgren, Carl A.	Med. 5	539 Pine Ave., Montreal	MA 7818
		20 Gladstone Ave., West Concord, N.H.	
Daignault, Lawrence G.	Ap. Sci. 1	2067 Church St., Montreal	FI 6796
Dainow, Henry	Com. 2	5161 Mance St., Montreal	CR 3392
Dame, Paul	Law 1	63 St. Germain St., St. Laurent, Que.	BY 0403
Dancey, Travis E.	Med. 2	3661 Jeanne Mance St., Montreal	HA 7389
		Aylmer West, Ont.	
Dangerfield, Gordon F.	Arts 2	3506 University St., Montreal	MA 2055
		Kemptville, Ont.	
Dansereau, Francois A.	Arts 1	257 Bloomfield Ave., Outremont, Que.	AT 0741
Darby, Gladys M.	Arts 2	2049 Marlowe Ave., Westmount, Que.	WA 0557
		956 E. 43rd St., Flatbush, Brooklyn, N.Y.	
Dart, Myra C. M.	Arts 1	539 St. Clement St., Montreal	CL 0386
Daughney, Ralph Herman	Grad. Sch.	Charlo Station, Restigouche Co., N.B.	
Davidson, Gordon	Law 3	1445 Closse St., Montreal	WI 1965
Davidson, John A.	Med. 3	626 Murray Hill, Westmount, Que.	WE 6836
Davies, Baxter T.	Med. 1	650 Sherbrooke St. W., Apt. 5, Montreal	LA 5661
		334 Baynes St., Buffalo, N.Y.	
Davies, Elsie R.	Grad. Sch.	Patricia Avenue, Montreal	
Davies, Malcolm de F.	Arts 1	3651 Oxenden Ave., Montreal	MA 5517
Davis, Charles W.	Ap. Sci. 1	630 Grosvenor Ave., Westmount, Que.	EL 3368
Davis, Ebenezer James	Theol. 1	3506 University St., Montreal	MA 2055
		Freshwater, Newfoundland	
Davis, Frederick E.	Arch. 3	3473 University St., Montreal	MA 4902
		Compton Station, Que.	
Davis Harry A.	Med. 5	Homeopathic Hospital, Montreal	WA 5620
		6144 Spruce St., Philadelphia, Pa.	



# DIRECTORY OF STUDENTS

683

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Davis, Henry W.	Law 3.	4041 Dorchester St. W., Westmount, Que.	WE 5716
Davis, Murray R.	Com. 1.	Strathcona Hall, Montreal	LA 1567
Davis, Philip T.	Com. 3.	Simcoe, Ont.	
Davison, Charles D.	Arch. 2.	1839 Lincoln Ave., Montreal	FI 7930
Davison, James L.	Com. 1.	199 Clemow Ave., Ottawa, Ont.	
Dawe, Herven M.	Arts 3.	3433 Peel St., Montreal	UP 4453
Dawson, Isabel G.	Arts 2.	Bridgewater, N.S.	
Dawson, Katherine H.	Med. 5.	772 Sherbrooke St. W., Montreal	LA 1567
Dawson, Raymond J.	Med. 3.	18 Chalmers St., Galt, Ont.	
Day, John J.	Med. 5.	3506 University St., Montreal	MA 2055
Day, Stella M.	Phy. Ed. 1.	Cupids, Nfld.	
Daykin, Charles E.	Med. 3.	21 Bellevue Ave., Westmount, Que.	WE 0746
Dean, Carl C.	Arts P.	21 Bellevue Ave., Westmount, Que.	WE 0746
Deathe, Ernest W. V.	Arts P.	2019 Aylmer St., Montreal	HA 5732
de Boucherville, Corinne	Arts P.	16 Granite St., Methuen, Mass.	
Decary, Hercule	Law 3.	280 44th Ave., Lachine, Que.	Lach. 172
de Chantal, Laurent E.	Arts 2.	Y.W.C.A., 1124 Dorchester St. W., Montreal	MA 7366
de Chazal, Marc P.	Ap. Sci. 4.	Bradford, Ont.	
de Lalla, Emanuel	Med. 4.	3506 University St., Montreal	MA 2055
de la Vergne, Paul M.	Med. 1.	481 Gladstone Ave., Ottawa, Ont.	
Delisle, Joseph L.	Arts 1.	3506 University St., Montreal	MA 2055
*de Luce, Iris	Arts P.	Stevenson Place, Ottawa, Ont.	
de Montigny, Raimbault M. A.	Ap. Sci. 4.	740 Bloomfield Ave., Apt. 8, Outremont	AT 1264W
Denenberg, Benjamin	Dent. 3.	31 Carleton St., Halifax, N.S.	
Denis, Frank T.	Ap. Sci. 3.	351 Redfern Ave., Westmount, Que.	WE 8358
Dennehy, A. T. F.	Grad. Sch.	132 St. James St., Montreal	
Denton, Bertram K.	Arts 1.	72 St. Joseph St., Dorval, Que.	Lach. 883J
Denton, Ronald L.	Arts 2.	Grenville Bay, Que.	
Derrick, Eugene D.	Med. 5.	3454 Peel St., Montreal	UP 6788
Desbarats, Henri B.	Arts 1.	Vacoas, Mauritius	
D'Esope, Joseph N.	Med. 5.	640 Prince Arthur St. W., Montreal	LA 6809
De Smit, Raymond W.	Med. 2.	704 Bleecker St., Utica, N.Y.	
Detlor, W. Lyall	Grad. Sch.	510 Pine Ave., Montreal	HA 2970
Dever, Walter G.	Ap. Sci. 1.	Salt Point, N.Y.	
Devitt, Harold E.	Arch. 3.	5056 Christophe Colomb St., Montreal	
Devitt, Harry B.	Com. 3.	1552 Bishop St., Montreal	UP 1176
Dewar, James P. Jr.	Arts 1.	867 Fell St., San Francisco, Cal.	
Dewing, Edward B. M.	Soc. Workers 1.	367 Sherbrooke St. W., Montreal	LA 2979
Dexter, Joseph D.	Ap. Sci. 3.	401 Daly Ave., Ottawa, Ont.	
		4118 Clarke St., Montreal	PL 6961
		3561 Lorne Ave., Montreal	MA 9541
		130 Maple Ave., Quebec	
		2044 Metcalfe St., Montreal	LA 0471
		108-12 Eighty-fifth Ave., Richmond Hill, New York City	
		4242 Old Orchard Ave., Montreal	WA 1506
		4242 Old Orchard Ave., Montreal	WA 1506
		251 Milton St., Apt. 24, Montreal	LA 2804
		Cambridge, N.Y.	
		3501 University St., Montreal	MA 1598
		Apt. 8, 1461 Mountain St., Montreal	LA 7278
		33 Elm St., Hartford, Conn.	
		3485 McTavish St., Montreal	MA 2720
		79 Somerville Ave., Westmount, Que.	WE 8055
		3556 St. Famille St., Montreal	PL 7383
		1205 Crescent St., Montreal	UP 5251J
		235 4th St. E., Cornwall, Ont.	
		1205 Crescent St., Montreal	UP 5251J
		235 4th St., E., Cornwall, Ont.	
		3612 Oxenden Ave., Montreal	HA 1662
		23 N. Lake Ave., Troy, N.Y.	
		Boys' Home, 6 Weredale Pk., Montreal	WE 2037
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De Zwirek, Louis A.	Law 3	842 McEachran Ave., Outremont, Que.	AT 1634
Dick, Robert N.	Med. 4	3442 Durocher St., Montreal	MA 8838
		Britannia Beach, B.C.	
Dickenson, G. Jean	Arts 4	Chateauguay Basin, Que.	
Dike, Mary E.	Arts 3	456 Argyle Ave., Westmount, Que.	WE 1743
		Okanagan Mission, B.C.	
Dinan, John J.	Med. 2	3592 University St., Montreal	MA 4479
		39 D'Auteuil St., Quebec	
Dinovitzer, Oscar	Phar. 3	4379 Old Orchard Ave., Montreal	EL 3555
Ditkofsky, Harry	Ap. Sci. 1	4455 City Hall Ave., Montreal	BE 4403J
Dixon, Paul R. B.	Ap. Sci. 1	3419 University St., Montreal	MA 3089
		Meadowbank Rd., Sound Beach, Vt.	
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Doble, J. Audrey	Arts 1	3228 Westmount Blvd., Montreal	WE 0463
Dobson, Kathryn J.	Arts 1	5499 Lafond St., Rosemount, Que.	CL 6300
Dobson, Richard N.	Arts 1	5499 Lafond St., Rosemount, Que.	CL 6300
Dodd, George K.	Ap. Sci. 1	581 Lansdowne Ave., Westmount, Que.	WE 2296
Dodd, John G.	Com. 3	581 Lansdowne Ave., Westmount, Que.	WE 2296
Dodds, Margaret R.	Arts 3	16 Daulac Rd., Westmount, Que.	WE 6123
Doherty, D'Arcy M.	Com. 4	3637 University St., Montreal	MA 1824
		293 Russell Hill Rd., Toronto, Ont.	
Doig, Howard A.	Arts 3	2160 Marcl Ave., Montreal	WA 3455M
Doig, Melbourne A.	Arts 3	1187 Hope St., Montreal	WI 4070
Donohue, Arthur T.	Dent. 3	3589 St. Famille St., Montreal	PL 2676
Donoghue, Kathleen E.	Arts 4	Royal Victoria College, Montreal	MA 2810
		Greystones, Weston, Ont.	
Doody, Hubert	Arts 3	3473 University St., Montreal	MA 4902
		114 St. John's Rd., Cannock, Staffs, Eng.	
Doolittle, Helen	Arts P.	3550 Lorne Ave., Montreal	MA 2693
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Doran, Harold J.	Arch. 5	841 Dollard Ave., Outremont, Que.	AT 7091
Doran, Margaret E.	Arts 2	24 Springfield Ave., Westmount, Que.	WE 3446
Dorfman, Dorah	Arts 4	3581 Marlowe Ave., Montreal	WA 2592
Dorken, R. Walter	Ap. Sci. 2	57 Summit Crescent, Westmount, Que.	EL 1927
Dougan, Travis S.	Med. 1	3483 Peel St., Montreal	UP 3215
		Harvey Station, N.B.	
Douglas, Elizabeth M.	Lib. Sch.	1434 Bishop St., Montreal	UP 6720
		5610 Angus Dr., Vancouver, B.C.	
Douglas, Robert A. C.	Com. 1	3429 Peel St., Montreal	UP 5947
		2154 Marine Dr., Vancouver, B.C.	
Doull, Harriett E. A.	Phy. Ed. 1	3466 University St., Montreal	MA 2608
		R.R. 2, Vernon, B.C.	
Doull, Margaret, D. C.	Arts 4	Royal Victoria College Annex, Montreal	MA 2610
		Vernon, B.C.	
Dow, Ruth P.	Med. 3	4643 Sherbrooke St. W., Westmount, Que.	WE 0905
Downey, Arthur	Arch. 1	70 Cardinal Ave., St. Laurent, Que.	BY 1819
Downing, Rev. John C.	P.G. Theol.	Farnham, Que.	
Doyle, John de V.	Dent. 4	3717 Jeanne Mance St., Montreal	LA 2361
		8 Rowe St., Roslindale, Mass.	
Doyle, Margaret E.	Arts 4	42 32nd Ave., Lachine, Que.	Lach. 534
Draper, Leslie M.	Arts 4	9 Highland Ave., Montreal	WE 0608
Drew, Charles R.	Med. 3	3580 Durocher St., Montreal	MA 4059
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Dryden, Reginald Norman	Theol. 3	3506 University St., Montreal	MA 2055
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685

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
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DuBoyce, Roslyn M. H.	Law 1.	Chipman N.B. 1025 Sherbrooke St. W., Montreal	Up. 4418
Dubrule, Hildred	Com. 1.	Richmond, Que. Royal Victoria College, Montreal	MA 2810
Duder, Rudolph	Arts 3.	Prescott, Ont. 3506 University St., Montreal	MA 2055
Dugan, Doris E.	Arts 4.	St. Johns' Nfld. 5908 Park Ave., Montreal	CR 6025
Dugdale, Frederick E.	Med. 3.	3514 Lorne Ave., Montreal	MA 6743
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Dumbell, George H.	Com. 4.	10658 Delorimier Ave., Montreal	CR 6783
Duncan, J. Alexander	Med. 3.	5926 Jeanne Mance St., Montreal	MA 1545
Dunlop, George Henry	Theol. 3.	545 Pine Ave. W., Montreal 2601 Cascadia Ave., Seattle, Wash.	MA 2055
Dunlop, James R.	Ap. Sci. 3.	3506 University Street, Montreal Shedden, Ont.	LA 5598
Dunlop, Robert J. F.	Ap. Sci. 3.	1126 Sherbrooke St. W., Apt. 1, Montreal 184 Primrose Ave., Ottawa, Ont.	HA 6486
Dunlop, William P.	Ap. Sci. 1.	3739 Hutchison St., Apt. 4, Montreal	WA 1854
Dunn, Richard B.	Med. 3.	St. Agnes de Dundee, Que. 37 Brock Ave., N., Montreal West	MA 7818
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Dunning, Herbert A.	Med. 3.	3529 University St., Montreal 56 College Ave., Ottawa, Ont.	LA 7947
Dunton, A Davidson	Arts 2.	1090 Beaver Hall Hill, Montreal 91 Florence St., Ottawa, Ont.	WE 2494
Duval, Henry P.	Ap. Sci. 2.	51 Trafalgar Ave., Westmount, Que.	St. Johns 102
*Dwyer, John N.	Ap. Sci. 3.	39 Victoria St., St. Johns, Que.	DO 6314
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Eakin, William R.	Arts 4.	37 Glencoe Ave., Outremont, Que.	WE 1498
Eaman, Stanley G.	Med. 5.	572 Roslyn Ave., Westmount, Que.	WI 4564
Eardley, Kenneth J. R.	Med. 2.	426 Charron St., Montreal	LA 1567
Earl, Cyril W.	Arts 1.	772 Sherbrooke St., Montreal	MA 3004
Earls, R.	Theol. 1.	3473 University St., Montreal The Rectory, Port Credit, Ont.	MA 2720
Eastman, Charles W.	Med. 1.	3485 McTavish Street, Montreal Bayswater Avenue, Ottawa, Ont.	HA 9309
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Eaves, Gladys L.	Arts 4.	30 Newton St., Brighton, Mass. 635 Murray Hill, Westmount, Que.	WE 1167
Eaves, Wynifred E.	Arts 4.	198 Cote St. Antoine Rd., Westmount, Que.	WE 1879
Ebbett, George H.	Arts 3.	635 Murray Hill, Westmount, Que.	MA 4479
Eberts, Edmond H.	Law 3.	3592 University St., Montreal 10 Charles St., Houton, Me.	UP 1493
Ebbitt, Stuart N.	Com. 2.	3575 Peel St., Montreal	WE 5907
Echlin, Francis A.	Med. 5.	4731 Western Ave., Westmount, Que.	MA 3101
Edelstein, Leo Joseph	Grad. Sch.	3605 University St., Montreal 299 Glen Road, Toronto, Ont.	LA 5528
Edgar, Wm. Stewart	Grad. Sch.	2054 Mansfield St., Montreal 2241-64th St., Brooklyn, N.Y.	WA 5083F
Edgington, Archibald M.	Arts 3.	580 Notre Dame de Grace Ave., Montreal	EL 5250
Edmison, John A.	Law 2.	4354 Wilson Ave., Montreal	HA 3325
Edney, Anne C.	Soc. Workers 1.	3419 St. Denis St., Montreal 78 Hogarth Ave., Toronto, Ont.	WE 9293F
Edson, E. Allan M.	Arts 4.	360 Claremont Ave., Apt. 3, Westmount, Que.	WA 0326
Edwards, Nina K.	Phy. Ed. 1.	4260 Hingston Ave., Montreal	MA 2608
Eibel, Philip	Med. 3.	3466 University St., Montreal Lake Linden, Mich.	AT 7117W
Eidinger, Samuel L.	Med. 2.	921 Davaar Ave., Outremont, Que.	BE 4022

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
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Eliasoph, Milton	Arch. 4	376 Fairmount Ave. W., Montreal	CR 3601
Elkin, Seymour	Law 1	42 Sunset Ave., Outremont, Que.	AT 7789
Elliott, Harold W.	Med. 1	45 Chesterfield Av., Westmount, Que.	WE 6095
		3454 Peel St., Montreal	UP 6788
		P.O. Box 166, Cache Bay, Ont.	
Elliott, Kathleen M.	Med. 2	5525 Decarie Blvd., Montreal	EL 6513
Ellis, Audrey L.	Phy. Ed. 2	3128 Westmount Blvd., Westmount, Que.	WE 4781
Ellis, David E.	Ap. Sci. 4	3434 McTavish St., Montreal	UP 8633
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Ellis, George H.	Med. 2	1122 Sherbrooke St. W., Montreal	LA 4573
		1893 Davenport Rd., Toronto, Ont.	
Ellis, Harold S.	Med. 5	1512 St. Mark St., Montreal	WI 1871
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Ellsworth, H. Charles	Med. 2	Apt. 20, 251 Milton St., Montreal	MA 8936
		Bangor, N.Y.	
Epstein, Louis	Dent. 3	4519 Hutchison St., Montreal	DO 7631
Erdrich, Harold J.	Law 3	3492 St. Famille St., Montreal	HA 3951
Erlick, George E.	Arts 4	4464 City Hall Ave., Montreal	HA 6838
Erlick, Max H.	Dent. 4	5260 Hutchison St., Montreal	CR 7143
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Esmond, Douglas C.	Ap. Sci. 2	3592 University St., Montreal	MA 4479
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Essery, Margaret L.	Arts 3	367 Edward Charles Ave., Montreal	DO 5407
Estall, Henry Martyn	Grad. Sch.	Arts Building, McGill University	Longueuil
		217-9th Ave., Longueuil, Que.	534
Estano, Verne W. T.	Com. 2	71 Arlington Ave., Westmount, Que.	WE 8034
Etziony, Mordecai	Grad. Sch.	4124 Henri Julien Ave., Montreal	BE 0782W
Evans, Alexander M.	Med. 4	3637 University St., Montreal	MA 1824
		3775 Pender St. E., Vancouver, B.C.	
Evans, Delano Ernest	Grad. Sch.	522 Sherbrooke St. W., Montreal	
Evans, Edward N.	Ap. Sci. 4	352 Kitchener Ave., Westmount, Que.	FI 4455
Evans, Margaret J. B.	Arts P.	3091 Westmount Blvd., Westmount, Que.	WE 3031
Evans, Marie E.	Arts 4	Royal Victoria College, Montreal	MA 2810
		10 Ruskin Row, Winnipeg, Man.	
Evans, Philip N.	Ap. Sci. 2	352 Kitchener Ave., Westmount, Que.	FI 4455
Eve, Richard S.	Arch. 5	3564 University St., Montreal	MA 3466
Evelyn, Kenneth A.	Arts 3	1022 Sherbrooke St. W., Montreal	PL 6482
		Duncans, Jamaica, B.W.I.	
Ewart, Marion B.	Lib. Sch.	1019 Sherbrooke St. W., Montreal	UP 7913
		135 Cameron St., Ottawa, Ont.	
Fairbairn, Margaret E.	Arts 4	7 Ingleside Ave., Westmount, Que.	WE 8743J
Farmer, Kenneth P.	Com. 1	30 Maple Ave., St. Anne de Bellevue, St. Annes, Que.	117
Farmer, Thomas D. F.	Med. 5	640 Prince Arthur St. W., Montreal	MA 9531
		Bristol, Conn.	
Farquharson, Hugh M.	Arts 4	67B Prospect St., Westmount, Que.	WE 6840
Fassett, Elizabeth	Phy. Ed. 1	3466 University St., Montreal	MA 2608
		14 Stetson Ave., Plattsburg, N.Y.	
Faulkner, George V.	Med. 2	545 Pine Ave., Montreal	MA 1545
		101 Bridge St., E., Belleville, Ont.	
Feigenbaum, Louis W.	Arts 4	425 Edward Charles St., Outremont, Que.	DO 8429
Feigenbaum, Max	Arts 1	4636 Park Ave., Montreal	DO 8759
Feiner, A.	Grad. Sch.	1473 Dorion St., Montreal	CH 6613
Feller, Jacob	Med. 3	2010 Mansfield St., Montreal	LA 9384
		256 Stewart St., Ottawa, Ont.	
Fenton, Mary F.	Arts 2	1476 Closse St., Apt. 6, Montreal	WI 8771
		2 Wilder Terrace W., Springfield, Mass.	
Ferguson, Allan A.	Ap. Sci. 4	3483 Peel St., Montreal	UP 3215
		Pictou, N.S.	
Ferguson, John G.	Ap. Sci. 1	1925 Tupper St., Montreal	WI 4337
		105 Goulbourne Ave., Ottawa, Ont.	
Ferrier, George C.	Arts 1	4486 St. Catherine St. W., Westmount, Que.	WE 0800
		South Mountain, Ont.	



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687

NAME

FACULTY AND YEAR

ADDRESS

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Where two addresses are given, the second is the home address

Fidler, Evelyn M.	Soc. Workers 1.	St. Columba House, 2365 Grand Trunk St., Montreal.	WI 6202
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		Macdonald College, Que.	St. Annes 87
Finlayson, Leonard Roy	Grad. Sch.	6117 Monkland Ave., Montreal.	
Finestone, Bernard	Arts 2.	4436 St. Catherine St., Westmount, Que.	WE 8400
Finkel, Henry	Arch. 1.	4395 Clarke St., Montreal.	BE 8187
Finkelstein, Issie	Arts 1.	137 Dorchester St. W., Montreal.	LA 2027
*Fish, Lottie	Arts P.	3540 Durocher St., Montreal.	MA 5415
Fisk, Guy H.	Med. 3.	86 Maple Ave., St. Lambert, Que.	St. Lam. 1235
Fiske, Reginald E.	Arts 2.	3581 University St., Montreal.	MA 3842
Fitzgerald Frederick W.	Med. 3.	Manchester, N.H.	
Fitzgerald, William W.	Med. 5.	539 Pine Ave. W., Montreal.	MA 7818
		Grand Falls, Nfld.	
Fitzgerald, William W.	Med. 5.	2039 University St., Montreal.	LA 8754
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Fitzhugh, William M. Jr.	Med. 3.	705 Querbes Ave., Outremont, Que.	AT 4222W
		705 Querbes Ave., Outremont, Que.	AT 4222W
		2350 Broadway, San Francisco, Cal.	
Flahault, Elizabeth	Grad. Sch.	4205 Northcliffe Ave., Montreal.	WA 5931
Flanders, Sidney H.	Com. 2.	6046 Durocher Ave., Montreal.	AT 5136
Fleck, John	Arts P.	3485 McTavish St., Montreal.	MA 2720
		Falkirk, Scotland.	
Fleishman, Maurice H.	Arch. 1.	17 St. Catherine Rd., Montreal.	DO 8713
Fleming, Allan J.	Med. 4.	1462 Guy St., Montreal.	UP 5073
		146 Montrose St., Winnipeg, Man.	
Fleming, Donald S.	Arts 3.	4326 Coolbrooke Ave., Montreal.	EL 3386
Flett, Aileen	Grad. Nurse	4039 Tupper St., Montreal.	WE 9000
		Oakwood, Ont.	
Floyd, Beatrice F. E.	Lib. Sch.	3721 Jeanne Mance St., Montreal.	LA 2714
		Tamworth, Ont.	
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		124 Weldon St., Moncton, N.B.	
Fontaine, Lucienne	Arts 1.	5957 Toulouse St., Montreal.	CL 7080J
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		1546 12th Ave., W., Vancouver, B.C.	
Forbes, Catherine	Soc. Workers 1.	4 Oldfield Ave., Apt. 10, Montreal.	WI 0224
Forbes, Franklin R.	Grad. Sch.	Macdonald College, Que.	St. Annes 87
Forbes, Gordon R.	Com. 2.	3609 University St., Montreal.	MA 4300
		111 Powell Ave., Ottawa, Ont.	
Forbes, Jean M.	Arts 2.	Royal Victoria College, Montreal.	MA 2810
		111 Powell Ave., Ottawa, Ont.	
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		Portneuf Station, Que.	
Ford, William M.	Law I.	203 Lesperance St., St. Lambert, Que.	St. Lam. 409J
Foster, Annie H.	Lib. Sch.	3512 Shuter St., Montreal.	MA 8935
		White Rock, B.C.	
Foster, Frank P.	Med. 3.	1028 Sherbrooke St., W., Montreal.	LA 0734
		2 Erwin Park, Montclair, N.J.	
Foster, Ian M.	Arts 1.	1437 McGill College Ave., Montreal.	LA 7036
Foster, Ida L.	Phy. Ed. 1.	3466 University St., Montreal.	MA 2608
		84 Palmer St., Guelph, Ont.	
Fougere, Hermann H.	Arts 2.	3555 University St., Montreal.	MA 7918
		Shediac, N.B.	
Fournier, Claude J.	Med. 4.	3495 Hutchison St., Montreal.	PL 6925
		249 Cedar St., Sudbury, Ont.	
Fowler, Hanford M.	Arts 3.	1528 Crescent St., Montreal.	UP 8083
		279 Regent St., Fredericton, N.B.	
Fox, Dorcas	Grad. Nurse	5719 Cote St. Antoine Rd., Montreal.	EL 4172

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Frankel, Paul H.	Ap. Sci. 1	460 Strathcona Ave., Westmount, Que.	WE 0090
Fraser, Allan D. W.	Ap. Sci. 2	1239 Van Horne Ave., Montreal	AT 3313
Fraser, Archibald D.	Arts 4	3605 University St., Montreal, Edmundston, N.B.	MA 3101
Fraser, Caroline C.	Lib. Sch.	V.W.C.A., Dorchester St., Montreal, Stellarton, N.S.	MA 7366
Fraser, Helen M.	Grad. Nurse	3630 Park Ave., Montreal, Eureka, R.R. No. 1, Pictou Co., N.S.	MA 3917
Fraser, William G.	Med. 4	3467 Shuter St., Montreal, 812 Summer St., Lynn, Mass.	MA 9524
Frazee, Margaret I.	Arts P.	10 Bethune Ave., Westmount, Que.	WE 8639
Freedman, Bertram J.	Com. 3	366 Kensington Ave., Westmount, Que.	WE 6040
Freedman, Ernest Orkin	Law 1	366 Kensington Ave., Westmount, Que.	WE 6040
Freedman, Hyman J.	Dent. 4	3684 Henri Julien Ave., Montreal	HA 4797
French, Chauncey W.	Med. 1	3547 University St., Montreal, S. Deerfield, N.H.	MA 6915
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Fricke, Laurence	Ap. Sci. 1	21 Barat Rd., Westmount, Que.	WE 3738
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Froats, E. Basken	Arts 3	3506 University St., Montreal, 130 Hinton Ave., Ottawa, Ont.	MA 2055
Frost, Anson C. G.	Med. 4	3637 University St., Montreal, 1619 King Edward Ave., Vancouver, B.C.	MA 1824
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Fulcher, John G.	Com. 2	3581 University St., Montreal, Hemmingford, Que.	MA 3842
Fulford, G. Lloyd	Arts 4	3485 McTavish St., Montreal, Arnprior, Ont.	MA 2720
Fuller, Harold T.	Med. 2	1012 Sherbrooke St. W., Montreal, 16 May St., Needham, Mass.	LA 9632
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Fyshe, Thomas G.	Med. 1	2075 Comte St., Montreal	WI 1071
Gage, Everett Lyle	Grad. Sch.	3555 University St., Montreal	
Gage, John E.	Com. 3	3433 Peel St., Montreal, 555 Wellington Crescent, Winnipeg, Man.	UP 4453
Gahan, Henry M.	Med. 1	3547 University St., Montreal, 19 Washington St., Medford, Mass.	MA 6915
Gaillard, Milton T.	Med. 4	3469 Hutchison St., Montreal, 147 Rogers Ave., Brooklyn, N.Y.	MA 7224
Gales, David L.	Arts 3	1536 St. Mark St. Apt. 1, Montreal	WI 4551
Gallaher, Logan V.	Arch. 1	Presbyterian College, Montreal, 428 Alfred St., Kingston, Ont.	MA 2720
Gallaughier, Arthur F.	Grad. Sch.	772 Sherbrooke St. W., Montreal, 4645 Fourth Ave., Vancouver, B.C.	LA 1567
Galt, Norman M.	Com. 1	1586 Pine Ave., W., Montreal	UP 4633
Gamble, Charles S.	Med. 3	4620 Jeanne Mance St., Montreal	BE 7266
Gamble, Fred	Ap. Sci. 1	1444 Fort St., Montreal, McMasterville, Que.	WI 3425
Gannon, Joseph M.	Med. 1	3578 University St., Montreal, 459 Franklin Ave., Brooklyn, N.Y.	MA 1074
Garcelon, Gerald Goodwin	Med. 1	3455 Hutchison St., Montreal, 150 College St., Lewiston, Me.	PL 1712
Gardham, Roma P.	Soc. Workers 1	2049 Coursol St., Montreal, 56 Gloucester St., Ottawa, Ont.	WI 0255
Gardner, Ruth Avis	Grad. Sch.	7252 Outremont Ave., Montreal	AT 6145W
Gardner, Bella	Arts 1	490 Champagne Ave., Montreal, 36 Dauphine St., Quebec	AT 3042



# DIRECTORY OF STUDENTS

689

NAME

FACULTY AND YEAR

ADDRESS

TEL. NO.

Where two addresses are given, the second is the home address

Gardner, Campbell M.	Med. 5	475 Cote des Neiges Rd., Montreal	WE 6351
Garland, Sydney George, M.A.	Theol. 3	3506 University St., Montreal	MA 2055
Garlick, Margaret I.	Arts 1	Lower Island Cove, Newfoundland	
Garmaise, Florence	Arts 4	3758 St. Hubert St., Montreal	HA 5415
Garmaise, Max	Law 3	5452 St. Urbain St., Montreal	CR 8291
Garneau, Edouard	Arts 2	210 Laurier Ave. W., Montreal	BE 1085F
Garonce, Philip S.	Arts 2	3456 University St., Montreal	MA 9703
Garrett, Eric A.	Arts 1	5137 Clarke St., Montreal	CR 8147
Garron, Levon K.	Med. 1	McMasterville, Que.	
Garvock, Alex. G.	Ap. Sci. 2	3535 Lorne Avenue, Montreal	MA 7969
Gatehouse, Wallace M.	Arts 1	Box 133, Fowler, Calif.	
Gelfand, Myer	Law 2	3429 Peel St., Montreal	UP 5947
Genser, Jack	Com. 1	136 Lewis St., Ottawa, Ont.	
George, Everett M.	Med. 5	637 Murray Hill, Westmount, Que.	WE 1897
Gerrie, John W.	Med. 5	5151 Jeanne Mance St., Montreal	CR 1993
Gershovitch, Jack	Arts 1	5844 Hutchison St., Montreal	CR 8570
Gerson, Sidney	Arch. 1	3410 Atwater Ave., Apt. 8, Westmount, Que.	FI 2716
Gersovitz, Frank	Ap. Sci. 3	2620 Beaver Ave., Des Moines, Iowa	
Giblin, Norris	Grad. Sch.	1864 St. Luke St., Montreal	WI 3446
Giguere, H. Camille	Dent. 3	8629 108th St., Edmonton, Alta.	
Gilbert, David	Law 2	4282 St. Urban St., Montreal	BE 5884J
Gilbert, Isabel D.	Med. 1	Kenogami, Que.	
Gill, MacLean J.	Med. 4	5850 Hutchison St., Montreal	CR 6003
Gilleau Watson	Arts 3	457 Argyle Ave., Westmount, Que.	WE 3579
Gillies, D. J.	Theol. 2	4065 Cote des Neiges Rd., Montreal	WE 8579
Gilmore, Alice E.	Arts P.	1120 Bernard St. W., Apt. 19, Outremont, Que.	AT 4596
Gillman, Constance G. E.	Grad. Sch.	5475 Esplanade Ave., Montreal	CR 6617
Gilman, Albert E. G.	Com. 4	548 Prince Arthur St. W., Montreal	MA 7845
Gilmore, Laura B.	Grad. Sch.	Sharon, Conn.	
Gilmour, Arthur W.	Com. 2	539 Pine Ave. W., Montreal	MA 7818
Gilmour, Sutherland B.	Ap. Sci. 1	Woodsville, N.H.	
Gilroy, Geoffrey S.	Arts 3	604 Clarke Ave., Westmount, Que.	WE 2722
Ginsberg, Hilliard	Law 2	3485 McTavish Street, Montreal	MA 2720
Girard, Raoul	Ap. Sci. 1	Argyleshire, Scotland	
Girvan, George R.	Med. 2	1647 Gladstone Ave., Montreal	WI 3387
Gitnick, Philip J.	Arts 2	1237 Guy St., Montreal	UP 5813
Gitterman, Sam	Arch. 1	5625 Park Ave., Apt. 2, Montreal	CR 2791
Giulianelli, Leonard S.	Med. 4	79 Pleasant St., Winchendon, Mass.	
Glasberg, Frances G.	Arts 3	3830 Hampton Ave., Montreal	WA 9334
Glashan, Arthur A.	Arts 1	1028 Sherbrooke St. W., Montreal	LA 0734
Glass, William K.	Com. 3	24 Russell Ave., Ottawa, Ont.	
Glassco, Meredith G.	Com. 4	772 Sherbrooke St. W., Montreal	LA 1567
Glassman, Esther	Music	Smith's Falls, Ont.	
Glynn, John Hubert	Grad. Sch.	3660 Hutchison St., Apt. 16, Montreal	LA 8823
Goldenberg, H. Carl	Law 2	27 McNider St., Montreal	DO 6976
Goldenberg, Mark E.	Arts 1	3592 University St., Montreal	MA 4479
Goldfine, Annabel	Arts 2	167 Weldon St., Moncton, N.B.	
		4313 St. Dominique St., Montreal	BE 9991M
		5134 Jeanne Mance St., Montreal	CR 1422
		5568 1st Ave., Rosemount, Que.	CL 3017
		865 Dunlop Ave., Montreal	AT 1681
		5261 Cartier St., Montreal	AM 2498
		3454 Peel St., Montreal	UP 6788
		78 Ash St., Winnipeg, Man.	
		3637 University St., Montreal	MA 1824
		2 Evergreen Place, Winnipeg, Man.	
		732 Wilder Ave., Outremont, Que.	AT 4151
		Windsor Hotel, Peel St., Montreal	UP 2880
		2718-E. 77th St., Chicago, Ill.	
		417 Mount Stephen Ave., Westmount, Que.	WE 2426
		4324 Sherbrooke St. W., Westmount, Que.	FI 0737
		4278 Sherbrooke St. W., Apt. 2, Westmount, Que.	FI 5859



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Goldstein, Ernest	Med. 5	5258 Jeanne Mance St., Montreal	CR 3473
Goldstein, Joseph	Arts 1	1377 Lajoie Ave., Montreal	AT 1276
Goldstein, Moss A.	Com. 1	1122 Champlain St., Apt. 6, Montreal	CH 2364
Goldwater, Gitelle	Arts 1	364 St. Joseph St., Lachine, Que.	Lach. 221J
Golfman, Myer	Arts 4	5940 Sherbrooke St. W., Montreal	WA 4548
Good, Robert	Theol. 2	3485 McTavish Street, Montreal	MA 2720
		548 Prince Albert Ave., Point aux Trembles, Que.	
Goodman, Davis	Arts 1	5239 Durocher Ave., Outremont, Que.	CR 8776
Goodman, Harold H.	Com. 3	5239 Durocher Ave., Outremont, Que.	CR 8776
Goodman, Hyman B.	Ap. Sci. 4	4882 Esplanade Ave., Montreal	BE 1750J
Goodman, Joseph	Arts 1	231 Villeneuve St. W., Montreal	BE 7579M
Goodman, Samuel J.	Arts 4	4439 Clarke St., Montreal	BE 6269W
Goodstone, Gerald Leonard	Arts 3	5357 Esplanade Ave., Montreal	CR 2001
Gordon, Dora	Dent. 3	4865 Jeanne Mance St., Montreal	BE 5137W
Gordon, Elsie L.	Soc. Workers 2	16 Braeside Pl., Westmount, Que.	WE 0657
Gordon, Elsie J.	Arts 1	3511 Benny Ave., Montreal	WA 1414
Gottlieb, Jacob	Law 1	57 St. Cuthbert St., Montreal	PL 1406
Gottlieb, Rudolf	Grad. Sch.	5703 Durocher Ave., Outremont, Que.	CR 5065
Gottschalk, Sydney R.	Ap. Sci. 4	1006 Sherbrooke St. W., Montreal	LA 9632
		712 Crown St., Brooklyn, N.Y.	
Gough, Marion A.	Phy. Ed. 1	3466 University St., Montreal	MA 2608
Gough, William F.	Med. 2	4560 St. Catherine St. W., Apt. 33, Westmount, Que.	WE 2492
Goulding, Velma J.	Arts 2	Royal Victoria College, Montreal	MA 2810
		67 St. George St., Toronto, Ont.	
Gowans, Marjorie S.	Arts 2	103 Sunnyside Ave., Westmount, Que.	EL 4700
Grace, Nathaniel	Grad. Sch.	83 Milton St., Montreal	HA 7056
Graham, Alwyn A.	Com. 1	4226 Northcliffe Ave., Montreal	WA 6335W
		Scotstown, Que.	
Graham, Charles A.	Ap. Sci. 2	619 Murray Hill, Westmount, Que.	WE 2636
		Chesterville, Ont.	
Graham, Christine E.	Arts 3	Royal Victoria College, Montreal	MA 2810
		2042 Cornwall St., Regina, Sask.	
Graham, Eric R.	Com. 2	756 Bloomfield Ave., Montreal	At. 0433
Graham, Hudson K.	Arts 1	619 Murray Hill, Westmount, Que.	WE 2636
		Chesterville, Ont.	
Granger, Ruth A.	Com. 3	42 Brock Ave. N., Montreal West	WA 0020
Granger, Sanford R.	Com. 4	3581 University St., Montreal	MA 3842
		532 Dufferin Ave., London, Ont.	
Grant, Easton	Com. 4	3720 Jeanne Mance St., Montreal	MA 3190
		41 Grosvenor Ave., Ottawa, Ont.	
Grant, Elizabeth Rhoda	Grad. Sch.	805 Upper Lansdowne Ave., Westmount, Que.	EL 2119
Grant, John A.	Ap. Sci. 1	475 Argyle Ave., Westmount, Que.	WE 5260
Grant, Margaret M.	Arts 2	Royal Victoria College, Montreal	MA 2810
		Upper Canada College, Toronto, Ont.	
Grant, Mary J.	Arts 2	475 Argyle Ave., Westmount, Que.	WE 5260
Grant, William T.	Com. 2	3637 University St., Montreal	MA 1824
		280 Devonshire Rd., Walkerville, Ont.	
Gravel, Maurice G.	Ap. Sci. 1	19 Barat Rd., Westmount, Que.	WE 5837
Gray, Edward L.	Arts 2	596 Cote St. Antoine Rd., Westmount, Que.	WE 2670
Gray, Evelyn L.	Arts 1	493 Sherbrooke St. W., Montreal	MA 1439
		24 Inglewood Dr., Hamilton, Ont.	
Gray, James D.	Med. 4	390 Cote des Neiges Rd., Montreal	WE 6845
Gray, Mary M.	Arts 4	Royal Victoria College, Montreal	MA 2810
		72 Leinster St., St. John, N.B.	
Gray, Nelson M.	Med. 4	1433 Chomedy St., Montreal	WI 3311
Grayson-Bell, Bryce	Com. 3	3429 Peel St., Montreal	UP 5947
		900 Echo Dr., Ottawa, Ont.	
Green, Elise H.	Arts 4	3 Winchester Ave., Westmount, Que.	WE 0671
		43 Balmoral Place, Winnipeg, Man.	
Greenberg, Ethel	Music	4505 Wilson Ave., Montreal	EL 1854
Greenblatt, Robert B.	Med. 4	2066 Marlowe Ave., Montreal	WA 8854
Greenspoon, Henry E.	Arch. 3	774 Bloomfield Ave., Montreal	AT 6707
Gregory, Robert A.	Med. 5	539 Pine Ave., W., Montreal	MA 7818
		85 Main St., St. John, N.B.	
Gregory, Ruth H.	Arts 1	Royal Victoria College Annex, Montreal	MA 2610
		102 Balfour Apts., Regina, Sask.	



# DIRECTORY OF STUDENTS

691

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
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Where two addresses are given, the second is the home address

Greig, Margaret E.	Grad. Sch.	59 Windsor Ave., Westmount, Que.	WE 1551
Grier, Andrew D.	Arts 1.	Valleyfield, Que.	
Grieve, Arthur Douglas	Grad. Sch.	79 Redpath Crescent, Montreal	UP 3243
		3573 Lorne Ave., Montreal	MA 0254
Griffin, Gerald P.	Arch. 1.	R.R. No. 1, Wilton Grove, Ont.	
		1034 Sherbrooke St. W., Montreal	PL 0949
Griffith, Wilberforce	Med. 3.	Edmundston, N.B.	
		631 Milton St., Montreal	PL 0475
Griffiths, Eugene B.	Med. 5.	450 Manhattan Ave., New York	
		640 Prince Arthur St. W., Montreal	MA 9531
Griffiths, Harry E.	Com. 2.	Presque Isle, Me.	
Griffiths, William E.	Ap. Sci. 4.	1487 Mountain St., Apt. 5, Montreal	MA 8727
Grigg, Arthur P.	Med. 1.	772 Sherbrooke St. W., Montreal	LA 1567
		545 Pine Avenue W., Montreal	MA 1545
Grimes-Graeme, Arthur D. C.	Com. 1.	325 N. Payette St., Saginaw, Mich.	
		Strathcona Hall, Montreal	LA 1567
Grimes-Graeme, Rhoderick C.H.	Grad. Sch.	155 E. 73rd St., New York City	
		772 Sherbrooke St. W., Montreal	LA 1567
Gross, Sara S.	Law 3.	155 E. 73rd St., New York City	
Grossman, Florence	Music	4131 Western Ave., Westmount, Que.	WE 8629
Grubert, Mary	Law 1.	4871 St. Urbain St., Montreal	BE 5216
Guimont, Rita A.	Grad Nurse 1.	5355 Durocher Ave., Montreal	CR 2746
Gunn, William D.	Med. 3.	1058 St. Denis St., Montreal	LA 7493
		1198 Seymour Ave., Montreal	WI 4846
Gunning, Merle P.	Arts 1.	115 2nd St., New Westminster, B.C.	
Gurd, Fraser N.	Arts 1.	212 Pine Ave., St. Lambert, Que.	St. Lam. 1238W
		3180 Westmount Blvd., Westmount, Que.	WE 4477
Gurd, George W.	Grad. Sch.	3573 Lorne Ave., Montreal	
Gurvitch, Samuel M.	Med. 4.	187 Elmwood Ave., London, Ont.	
Gustafson, Carl J.	Arts 4.	259 St. Viateur St. W., Montreal	CR 4978
		3506 University St., Montreal	MA 2055
Gutelius, Phoebe A.	Arts 4.	Waterville, Que.	
		341 Kensington Ave., Westmount, Que.	WE 7576
Guy, Mary E.	Arts 1.	6196 Notre Dame de Grace Ave., Montreal	WA 2231
Haas, Harry	Arts 4.	89 St. Cuthbert St., Montreal	BE 4960
Haber, Harold E.	Arts 4, Dent. 1.	1489 Eastern Parkway, New York	
		754a Bloomfield Ave., Outremont, Que.	AT 6198W
Hadrill, Beatrice M.	Grad. Nurse 1.	1170 Seymour Ave., Montreal	WI 5580
Hadwin, Marjorie E.	Arts 4.	112 Birch Ave., St. Lambert, Que.	St. Lam. 47
Haeberlin, John B. Jr.	Med. 1.	772 Sherbrooke St. W., Montreal	LA 1567
*Haines, Stanley B.	Arts 2.	7136 Princeton Ave., Chicago, Ill.	
Hall, Clifton L.	Grad. Sch.	1 Parkside, Montreal West	WA 3108
		Lachute, Que.	
Hall, George	Theol. 1.	3473 University St., Montreal	MA 4902
		Oldham, Lancs., England	
Hall, Gwendolyn A.	Arts 1.	570 Milton St., Apt. 12, Montreal	MA 7419
Hallett, Robert B.	Arts P.	3506 University St., Montreal	MA 2055
		9 Romilly Rd., Cardiff, Wales	
Hallonquist, Earland G.	Grad. Sch.	4560 St. Catherine St. W., Montreal	WE 1246
		1021-8th Ave., New Westminster, B.C.	
Halpenny, Gerald W.	Med. 2.	484 Prince Arthur St. W., Montreal	MA 8761
Halpenny, Gwendolyn M.	Arts 2.	484 Prince Arthur St. W., Montreal	MA 8761
Halperin, David	Arts 2.	4652 St. Urbain St., Montreal	BE 5344
Halperin, Harry J.	Com. 3.	4652 St. Urbain St., Montreal	BE 5344
Hamel, Jules	Dent. 3.	3327 Maplewood Ave., Montreal	EL 3570
		6 D'Aiguillon St., Quebec	
Hamilton, Douglas V.	Arts 3.	445 Mt. Pleasant Ave., Westmount, Que.	WE 1120
Hamilton, Iris M.	Arts 4.	1064 Bernard Ave., Apt. 42, Montreal	AT 1958
Hamilton, Jean D.	Arts 1.	533 Prince Arthur St. W., Montreal	MA 7563
		6 Mitchell St., Morwick, N.Y.	
Hamilton, Robert A.	Arts 2.	17 des Sources Rd., Strathmore, Que.	Lach. 511-
		Abbotsford, Que.	r2

\*Left early in the session.



## NAME

## FACULTY AND YEAR

## ADDRESS

## TEL. NO.

Where two addresses are given, the second is the home address

Hamilton, Robert M.	Arts 1.	23 19th Ave., Lachine, Que.	Lach. 327F
Hamilton, Sydney R.	Arts 1.	1064 Bernard Ave., Apt. 42, Montreal	AT 1958
Hammond, George C.	Com. 2.	1176 Sherbrooke St. W., Montreal	MA 1447
		20 Portland Ave., Sherbrooke, Que.	
Hampton, Wm. F.	Grad. Sch.	52 Academy Rd., Apt. 107, Westmount, Que.	MA 2055
		Mundy Pond Rd., St. John's, Nfld.	
Hanbury, Bruce A.	Com. 3.	3647 University St., Montreal	MA 2806
		2751 41st Ave., W., Vancouver, B.C.	
Hand, Charles W.	Arts 2.	1022 Sherbrooke St. W., Montreal	
		130 S. College Ave., Sarnia, Ont.	
Hanke, Ella B.	Arts 2.	493 Sherbrooke St. W., Montreal	MA 1439
		Tavistock, Ont.	
Hankin, Edmund A.	Ap. Sci. 1.	648 Murray Hill, Westmount, Que.	WE 6442
Hankin, Mary E.	Arts 3.	648 Murray Hill, Westmount, Que.	WE 6442
Hanlon, Francis W.	Med. 5.	3434 McTavish St., Montreal	UP 8633
		Ridlonville, Me.	
Hanson, A. George	Med. 1.	3457 Shuter St., Montreal	MA 7669
		Enumclaw, Wash.	
Hanson, Frank, K.	Music.	4338 Oxford Avenue, Montreal	EL 2726
Harbert, Richard G. M.	Arts 1.	3772 Marlowe Ave., Montreal	WA 0452M
Harkins, Michael J.	Med. 4.	539 Pine Ave. W., Montreal	MA 7818
		28 Union St., Lewiston, Me.	
Harkness, James	Arts 3.	301 Sherbrooke St., Lachine, Que.	Lach. 1820W
Harrigan, Fred	Ap. Sci. 3.	1034 Sherbrooke St. W., Montreal	PL 0949
		73 North St., Houlton, Me.	
Harrington, Anne L.	Arts 2.	Ste. Anne de Bellevue, Que.	
Harrington, Conrad F.	Arts 2.	447 Elm Ave., Westmount, Que.	FI 7729
Harrington, Margaret E.	Arts 3.	Ste. Anne de Bellevue, Que.	
Harris, Archie M.	Med. 4.	3620 Oxenden Ave., Montreal	MA 1774
		125 Daremus Ave., Ridgewood, N.J.	
Harris, Harry H.	Law 1.	3515 Durocher St., Apt. 72, Montreal	MA 6756
Harris, Winifred M.	Arts 3.	Royal Victoria College, Montreal	MA 2810
		1902 Matthews Ave., Vancouver, B.C.	
Harrison, A.H.	Theol.	3473 University St., Montreal	MA 4902
		349 S. Brock Street, Sarnia, Ont.	
Harrison, David G.	Ap. Sci. 1.	Strathcona Hall, Montreal	LA 1567
		1974 Cedar Crescent, Vancouver, B.C.	
Harrison, Joseph H.	Arts 1.	735 Davaar Ave., Montreal	AT 4205
Harrison, Ronald D.	Ap. Sci. 1.	48 Dufferin Rd., Montreal	EL 4627
Harrison, Sybil M. E. W.	Arts 1.	380 Beatty Ave., Verdun, Que.	YO 3143
Hart, Alma R.	Arts 2.	600 Argyle Ave., Westmount, Que.	WE 1979
Hart, Charles F.	Arts 2.	1498 Sherbrooke St. W., Montreal	FI 1732
Hart, Herbert T.	Ap. Sci. 3.	3592 University St., Montreal	MA 4479
		c/o Manton & Hart, 71 Barry St., Kingston, Jamaica, B.W.I.	
Hart, Isidor R.	Arts 3.	4849 Hutchison St., Montreal	DO 6765
Hart, Wilbur J.	Arch. 1.	1498 Sherbrooke St. W., Montreal	FI 1732
Hart, William R.	Com. 2.	62 Forden Crescent, Westmount, Que.	WE 1930
Hartley, Alfred J.	Com. 2.	2071 Peel St., Montreal	LA 4359
		430 St. Patrick St., Victoria, B.C.	
Hartley, Edith F.	Arts 2.	Royal Victoria College, Montreal	MA 2810
		430 St. Patrick St., Victoria, B.C.	
Hartsough, Christopher W.	Med. 1.	3478 McTavish St., Montreal	UP 2143
		1202 Fifth Ave., San Diego, Cal.	
Harvey, Beatrice E. M.	Com. 2.	354 Oliver Ave., Westmount, Que.	FI 8954
Harvey, James C.	Com. 2.	3605 University St., Montreal	MA 3101
		Niagara-on-the-Lake, Ont.	
Harvey-Jellie, Doreen J.	Arts 3.	378 Wood Ave., Westmount, Que.	WE 6586
Harvey-Jellie, Reginald C.	Law 3.	378 Wood Ave., Westmount, Que.	WE 6586
Harvie, Margaret M.	Phy. Ed. 2.	4469 Wilson Ave., Montreal	EL 5862
		4469 8th Ave., W., Vancouver, B.C.	
Harwood, Francis	Arts P.	3464 Mountain St., Montreal	UP 1552
Harwood, Robert Unwin	Grad. Sch.	1025 Sherbrooke St. W., Montreal	UP 4418
		Pincher Creek, Alberta.	
Haslam, Lewis C.	Med. 1.	5002 Grosvenor Ave., Westmount, Que.	EL 5546
		Springfield, P.E.I.	
Hastings, James A. C.	Arts 2.	2054 Metcalfe St., Apt. 7, Montreal	LA 5434
		Schreiber, Ont.	



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693

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Hatfield, Albert R. Jr.	Med. 5	1025 Sherbrooke St. W., Montreal	UP 4216
Hatfield, Gordon W.	Ap. Sci. 4	2709 Genesee St., Utica, N.Y.	
Haughton, Thomas J.	Med. 1	5825 Hutchison St., Montreal	CR 9164
Hawley, Eric F.	Ap. Sci. 4	122 Broad St., St. John, N.B.	
Hawthorne, John J.	Med. 1	3419 University St., Montreal	MA 3089
Hay, Margaret R.	Arts 2	Vankleek Hill, Ont.	
Hayden, Robert S.	Med. 5	10415 St. Hubert St., Montreal	DU 1284
Hayes, Saul	Law 2	Ormsdown, Que.	
Hayes, Harry	Arts P.	3550 Lorne Ave., Montreal	MA 2693
Haynes, William P.	Com. 3	3039 E. 1st Ave., Long Beach, Cal.	
Healy, Peter J.	Com. 2	Royal Victoria College, Montreal	MA 2810
Heaman, John D.	Ap. Sci. 2	101 Park Ave., Quebec, Que.	
Heard, Jack F.	Grad. Sch.	640 Prince Arthur St., W., Montreal	MA 9531
Heaton, Phyllis	Grad. Sch.	116 Circular St., Saratoga Springs, N.Y.	
Heavysege, Bruce R.	Ap. Sci. 2	7 Winchester Ave., Westmount, Que.	WE 5503
Hecht, Sol. S.	Com. 3	3485 McTavish St., Montreal	MA 2720
Heidman, Carl L.	Ap. Sci. 1	28 Linwood Ave., Belfast, Ireland	
Heitin, Benjamin	Com. 4	5826 Park Ave., Montreal	CR 7429
Held, Irene S.	Arts 3	2327 Wilson Ave., Montreal	WA 5794
Heller, Benjamin P.	Med. 4	3433 Peel St., Montreal	UP 4453
Heller, Michael	Arts 3	410 E. Jefferson St., Detroit, Mich.	
Helwig, Gerald V.	Grad. Sch.	260 Pine Ave. W., Montreal	
Henderson, Donald G.	Med. 5	38 Southwick St., St. Thomas, Ont.	
Henderson, Ernest R.	Arts 2	3136 Westmount Blvd., Westmount, Que.	WE 2450
Henderson, James	Arts 2	330a St. Joseph St., Lachine, Que.	Lach. 700W
Henderson, Jessie M.	Arts 3	137 Villeneuve St. W., Montreal	BE 2236
Henderson, John V.	Arts 4	1436 Crescent St., Montreal	UP 4922
Henderson, Marion G.	Arts 2	1189 Wellington St., Ottawa, Ont.	
Hendery, Helen C.	Arts 2	4278 City Hall Ave., Montreal	BE 6627W
Henniger, Charles F.	Ap. Sci. 3	460 Wiseman Ave., Outremont, Que.	AT 3933
Henniger, James P.	Ap. Sci. 2	226 St. Joseph Blvd. W., Montreal	BE 3630W
Henrie, Charles C.	Med. 1	226 St. Joseph Blvd. W., Montreal	BE 3630W
Henry, Alice L.	Arts 1	3485 McTavish St., Montreal	MA 2720
Henry, Margaret E.	Phy. Ed. 1	Alexandria, P.O., Jamaica, B.W.I.	
Henwood, Robert W.	Ap. Sci. 2	3639 St. Famille St., Apt. 19, Montreal	HA 7601
Herbert, Arthur D.	Arts 1	Huntingdon, Que.	
Herd, Jacques A.	Law 3	3454 Peel St., Montreal	
Herman, Harry	Law 1	51-17th Ave., Lachine, Que.	Lach. 13
Herrman, Michael C.	Law 2	5958 20th Ave., Rosemount, Que.	CL 2176W
Herrmann, Charles	Arts 1	Mount Royal Park, Montreal	UP 0873
Herschorn, Lottie R.	Grad. Sch.	Mount Royal Park, Montreal	UP 0873
Herscovitch, Julius	Med. 3	138 Cote des Neiges Rd., Montreal	UP 1137
Hershman, Fayge	Arts 2	814 Grosvenor Ave., Westmount, Que.	EL 4066
Hess, Ernest	Grad. Sch.	2019 Stanley St., Montreal	LA 7958
Heuser, Heinrich K. M.	Arts 3	Smiths Falls, Ont.	
		2019 Stanley St., Montreal	LA 7958
		Smiths Falls, Ont.	
		3637 Oxenden Ave., Montreal	MA 4086
		139 W. Market St., Xenia, Ohio	
		5967 Cote St. Antoine Rd., Montreal	WA 1527W
		3466 University St., Montreal	MA 2608
		2218 Osler St., Regina, Sask.	
		3478 McTavish St., Montreal	UP 2143
		113 St. Clair Ave., W., Toronto, Ont.	
		1434 Sherbrooke St. W., Montreal	UP 5639
		Dover, Barbados	
		4038 Vendome Ave., Montreal	WA 9322
		5700 Clarke St., Montreal	CR 6489
		236 St. Joseph Blvd. W., Montreal	BE 1750W
		542 Sherbrooke St. W., Montreal	HA 3639
		Colima No. 196, Mexico, D.F.	
		704 Bloomfield Ave., Outremont	AT 3461
		4615 Park Ave., Montreal	BE 4713F
		257 Villeneuve St. W., Apt. 10, Montreal	BE 5712
		Experimental Station, Halifax, N.S.	
		3433 Peel St., Montreal	UP 4453
		Hawkesbury, Ont.	



## NAME

## FACULTY AND YEAR

## ADDRESS

## TEL. NO.

Where two addresses are given, the second is the home address

Hewett, Walter A.	Arts 1	3473 University St., Montreal	MA 4902
Hewitt, Dorothy A.	Arts 3	921 Hartland Ave., Montreal	AT 7659
Hewitt, Frank Spencer	Grad. Sch.	3506 University St., Montreal	MA 2055
		Fortune, Newfoundland	
Hickey, Charles H.	Ap. Sci. 1	131 Ballantyne Ave., Montreal West	WA 0941
Hickey, Malcolm A.	Med. 2	131 Ballantyne Ave., Montreal West	WA 0941
Hickey, Margaret L.	Arts 1	318 Grosvenor Ave., Westmount, Que.	WE 9964
Hicks, Arthur John	Grad. Sch.	Wayagamack Island, Three Rivers, Que.	
Hicks, Henry B.	Ap. Sci. 1	4410 St. Catherine St. W., Westmount, Que.	WE 9604
Hicks, Frederick G.	Med. 2	539 Pine Ave. W., Montreal	MA 7818
		1116 Bruce Ave., Windsor, Ont.	
Higgerty, Mary V.	Arts 1	548 Prince Arthur St. W., Montreal	MA 5485
		105 Waverley St., Ottawa, Ont.	
Higgins, Alton R.	Med. 4	640 Prince Arthur St. W., Montreal	LA 6809
		780 Main St., Lewiston, Me.	
Higgins, Edward O'Neill	Com. 2	3647 University St., Montreal	MA 2806
		Prescott, Ont.	
Higgins, Marion V.	Arts P.	3492 Peel St., Montreal	
Hill, Allison K.	Med. 2	3547 University St., Montreal	MA 6915
		295 French St., Bangor, Me.	
Hill, Margaret L.	Arts 1	2257 Clifton Ave., Montreal	WA 3822
Hill, Marjory	Arts P.	446 Prince Albert Ave., Westmount, Que.	WE 7852
Hill, Olive M.	Arts 4	297 Beatty Ave., Verdun, Que.	YO 9067
Hill, Walter H. P.	Med. 2	1445 Mackay St., Montreal	UP 1225
Hilliard, William D.	Arts 2	1483 Atwater Ave., Montreal	WI 2017
Hines, Elizabeth A.	Arts 2	8028 Western Ave., Montreal West	WA 6440
Hines, William S.	Ap. Sci. 4	1004 Van Horne Ave., Montreal	AT 2664
		East Noel, Hants Co., N.S.	
Hingston, Katherine I.	Arts P.	1000 Sherbrooke St. W., Montreal	LA 0379
Hobbs, Constance A.	Arts 2	578 Desaulniers Blvd., St. Lambert, Que.	St. Lam. 555
Hobbs, Frederick S.	Med. 4	3419 University St., Montreal	MA 3089
		201 38th Ave., S.W., Calgary, Alta.	
Hobbs, Helen R.	Phy. Ed. 2	637 Grosvenor Ave., Westmount, Que.	EL 6763
		1195 Richmond St., London, Ont.	
Hochberg, Lew A.	Med. 5	2059 Peel St., Montreal	LA 0704
		1530 Bay St., Far Rockaway, L.I., N.Y.	
Hodges, Winifred N.	Arts P.	1200 Dunagan Rd., Mount Royal, Que.	AT 7465
Hodgins, Sidney B.	Com. 2	4467 Melrose Ave., Montreal	EL 2741
		Shawville, Que.	
Hoeflin, Cordelia	Grad. Nurse	1529 Cedar Ave., Montreal	UP 6121
Hogan, James J.	Arts 2	2395 Wellington St., Montreal	YO 0635
Hogle, John R.	Med. 3	539 Pine Ave. W., Montreal	MA 7818
		403 W. Liberty St., Ann Arbor, Mich.	
Hogue, Joseph A.	Arts 1	367 Querbes St., Outremont, Que.	AT 7126M
Holbrook, David B.	Med. 1	Weredale House, Weredale Park, Montreal	WE 2037
		Harding Court, Forest Hills, L.I., N.Y.	
Holcomb, Robt. K.	Grad. Sch.	1445 McGill College Ave., Apt. 7, Montreal	LA 6957
		Ste. Anne de Bellevue, Que.	
Holden, Margaret W.	Phy. Ed. 2	Apt. 9, 2019 Stanley St., Montreal	LA 0898
		111 Gerard St., Winnipeg, Man.	
Holland, Elizabeth A.	Arts 4	134 Ballantyne Ave. N., Montreal West	WA 0602
Holland, G. Allison	Med. 5	134 Ballantyne Ave. N., Montreal West	WA 0602
Holland, Hugo R.	Ap. Sci. 2	3433 Peel St., Montreal	UP 4453
		101½ Christina St., Sarnia, Ont.	
Holland, Trevor C.	Ap. Sci. 3	3749 Westmount Blvd., Westmount, Que.	WE 1744
Holland, Eleanor I.	Arts 4	5020 Victoria Ave., Westmount, Que.	EL 6387
Holleran, John H.	Med. 4	2100 Marlowe Ave., Montreal	WA 9641
		9 Heathcote St., Roslindale, Mass.	
Holliday, Ethel P.	Arts 1	580 Grosvenor Ave., Westmount, Que.	WE 8918



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695

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address

Hollingsworth, H. Lee B.	Com. 3.	3720 Jeanne Mance St., Montreal.	MA 3190
Holmes, Joseph W.	Arts 1.	105 Cambridge St., Ottawa, Ont.	
Howe, Hazel M.	Com. 3.	603 Notre Dame de Grace Ave., Montreal.	WA 7715
Home, John M.	Law 3.	Royal Victoria College, Montreal.	MA 2810
Hopkins, Henry P.	Med. 4.	Shawinigan Falls, Que.	
Horne, Robert A.	Arts 3.	3478 McTavish St., Montreal.	UP 2143
Horner, Muriel E.	Music.	362 Grande Allée, Quebec	
Horsfall, Frank Lappin Jr.	Med. 4.	640 Prince Arthur St. W., Montreal.	LA 6809
Horwitz, Sidney.	Arts 1.	Greenfield, N.H.	
Hough, Ayton L.	Ap. Sci. 2.	3592 University St., Montreal.	MA 4479
Hough, Earl.	Med. 2.	Summerside, P.E.I.	
Hough, Perry T.	Med. 4.	Royal Victoria College, Montreal.	MA 1439
Houghton, John R.	Arts 1.	54 Dufferin St., Granby, Que.	
Houghton, Thomas W.	Ap. Sci. 3.	640 Prince Arthur St. W., Montreal.	MA 9531
House, Kenneth W.	Arts 4.	403 18th Ave., N., Seattle, Wash.	
How, Emma L.	Arts 2.	652 Murray Hill, Westmount, Que.	WE 7205
How, George E.	Com. 4.	2101 University St., Apt. 7, Montreal.	LA 1941
Howard, Alma C.	Arts 1.	3489 Shuter St., Montreal.	PL 7320
Howard, Harvey.	Med. 5.	Outlook, Sask.	
Howard, Hazel P.	Arts 4.	5961 Cote St. Antoine Rd., Montreal.	WA 8814
Howard, Mabel E.	Phy. Ed. 2.	179 Beacon St., Hartford, Conn.	
Howard, R. Palmer.	Arts 3.	730 Upper Belmont Ave., Westmount, Que.	EL 3111
Howard, T. Palmer.	Arts 4.	730 Upper Belmont Ave., Westmount, Que.	EL 3111
Howat, Alfred D.	Com. 2.	3485 McTavish St., Montreal.	MA 2720
Howatt, Lorne John.	Grad. Sch.	2116 Dorchester Rd., Flatbush, Brooklyn, N.Y.	
Howell, Chesley T.	Arts 4.	3593 Marlowe Ave., Montreal.	WA 5728
Howes, Helen C.	Arts 1.	3593 Marlowe Ave., Montreal.	WA 5728
Howie, Mabel F.	Arts 3.	655 Grosvenor Ave., Westmount, Que.	EL 2587
Howie, Ruth J.	Arts 2.	3609 University St., Montreal.	MA 4300
Howland, Frances.	Grad. Sch.	Freeport, Me.	
Howlett, John G.	Med. 3.	655 Grosvenor Ave., Westmount, Que.	EL 2587
Howlett, Leslie E.	Grad. Sch.	1019 Sherbrooke St. W., Montreal.	UP 7913
Hubbard, Edward.	Med. 5.	744 Morrison Ave., Niagara Falls, Ont.	
Hudson, Percival A.	Arts 3.	630 Clarke Ave., Westmount, Que.	WE 9111
Hull, Carlos A.	Arts 1.	3261 Cedar Ave., Montreal.	WE 5530
Hulme, Gordon D.	Ap. Sci. 4.	392 Gordon Ave., Verdun, Que.	YO 2777J
Hungerford, Stewart J.	Ap. Sci. 4.	Macdonald College, Que.	St. Annes 87
Hunt, Andrew L.	Med. 5.	3506 University St., Montreal.	MA 2055
Hunt, Constance Mary.	Arts 4.	Carbonear, Nfld.	
Hunte, George B.	Com. 1.	Blue Triangle Annex, Y.W., Dorchester St., Montreal.	MA 7366
		157 Elm Ave., Windsor, Ont.	
		3590 St. Famille St., Montreal.	MA 1790
		Pike River, Que.	
		3590 St. Famille St., Montreal.	MA 1790
		Pike River, Que.	
		2045 Stanley St., Apt. 33, Montreal.	
		Athens, New York.	
		545 Pine Ave. W., Montreal.	MA 1545
		64 Prescott St., St. Johns, Nfld.	
		375 Prince Arthur St. W., Montreal.	HA 1941
		1538 Amphion St., Victoria, B.C.	
		Shriners' Hospital, Montreal.	UP 6121
		Taunton, Mass.	
		3506 University St., Montreal.	MA 2055
		Aylmer E., Que.	
		388 Oxford Ave., Montreal.	EL 5594
		3411 Grey Ave., Montreal.	WE 2472
		1108 Elgin Terrace, Montreal.	UP 4508
		3660 Lorne Crescent, Montreal.	MA 3062
		c/o John Hunt, Nanaimo, B.C.	
		Royal Victoria College, Montreal.	MA 2810
		327 S. James St., Hamilton, Ont.	
		1434 Sherbrooke St. W., Montreal.	UP 5639
		Norma Villa, River Rd., Barbados, B.W.I.	



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Hunter, Gerald F. H.	Grad. Sch.	772 Sherbrooke St. W., Montreal Huntingdon, Que.	LA 1567
Hunter, Robert Grant	Grad. Sch.	772 Sherbrooke St. W., Montreal Box 121, Clinton, Ont.	LA 1567
Huot, Paul	Arts 1.	5164 Park Ave., Montreal	CR 9593
Hurd, Allan C.	Med. 2.	3485 McTavish St., Montreal White River Jct., Vt.	MA 2720
Hurnett, Donna E.	Arts 1.	382 Claremont Ave., Westmount, Que.	WE 7299W
Hurry, Elizabeth	Arts 1.	4874 Westmount Ave., Westmount, Que.	WE 9079
Hurst, Donald G.	Arts 2.	3506 University St., Montreal Buckingham, Que.	MA 2055
Hutchins, John A.	Arts 4.	23 Windsor Ave., Westmount, Que.	WE 2602
Hutchison, Alfred W.	Ap. Sci. 4.	1211 Drummond St., Montreal 136 St. Cyrille St., Quebec, Que.	
Hutchison, James G.	Com. 4.	26 Aberdeen Ave., Westmount, Que.	WE 3078
Hutchison, William H.	Ap. Sci. 2.	26 Aberdeen Ave., Westmount, Que.	WE 3078
Hutchison, William L.	Ap. Sci. 1.	428 Sherbrooke St. W., Apt. 25, Mont- real	MA 9027
Hutt, Gordon McLean	Grad. Sch.	492 Driveway W., Ottawa, Ont.	
Hyams, Isadore	Arts 1.	4968 Earncliffe Ave., Montreal 417 St. Joseph Blvd., Apt. 9, Mont- real	EL 3638 DO 6318
Ignatieff, Leonide	Arts 3.	6251 Sherbrooke St. W., Montreal	WA 4421W
Ilsey, Eloise H.	Arts 3.	811 Grosvenor Ave., Montreal	EL 1977
ImObersteg, Anna	Soc. Workers 2.	674 Outremont Ave., Outremont, Que.	AT 2918
Inches, Marion	Grad. Nurse 1.	1201 Dorchester St. W., Montreal 10935 81st Ave., Edmonton, Alta.	MA 7366
Ingham, Jason H.	Ap. Sci. 1.	4034 Dorchester St. W., Westmount, Que.	WE 6085
Innes, Donald L.	Arts 1.	3637 University St., Montreal 268 James St. S., Hamilton, Ont.	MA 1824
Innes, Edward P.	Ap. Sci. 1.	3605 University St., Montreal Simcoe, Ont.	MA 3101
Ireland, Margaret	Arts 1.	58 Ainslie Rd., Montreal West	WA 0908
Ironstone, Harry R.	Dent. 4.	3556 Hutchison St., Montreal Sudbury, Ont.	HA 6991
Irving, Margaret L.	Arts 4.	1551 St. Mark St., Apt. 27, Montreal	FI 4571
Irwin, George C.	Lib. Sch.	2073 Victoria St., Montreal 10105 Macdonald Dr., Edmonton, Alta.	LA 9658
Isaacs, H. Ruth	Arts 2.	620 Grosvenor Ave., Westmount, Que. 21 Orange St., St. John, N.B.	EL 3566
Isherwood, Alice E.	Arts 2.	493 Sherbrooke St. W., Montreal 104 W. John St., Bay City, Mich.	MA 1439
Israel, Moses	Arts 2.	4905 Sherbrooke St. W., Westmount, Que.	WE 3270
Ittkin, Paul	Med. 3.	5921 Clarke St., Montreal	CR 1835
Ives, Margaret E.	Arts 2.	548 Prince Arthur St. W., Montreal 402 5th Ave., S., Lethbridge, Alta.	MA 7845
Jackman, Gerard J.	Com. 3.	4545 LaSalle Blvd., Verdun, Que. 45 Springdale St., St. Johns, Nfld.	YO 6725
Jackson, Clara E.	Grad. Nurse 1.	Western Div. Montreal General Hos- pital	WI 6855
Jackson, Cyril Robert	Grad. Sch.	43 Wadbrough Rd., Sheffield, Eng.	
Jackson, Naomi A.	Arts 2.	1618 Lincoln Avenue, Montreal 35 Campbell Ave., Montreal West	WA 0940
Jacob, Donald R.	Med. 2.	471 Prince Arthur St. W., Montreal South China, Me.	MA 8208
Jacobs, Dorothy	Law 2.	4278 Sherbrooke St. W., Westmount, Que.	FI 1647
Jacobs, Edward N.	Com. 3.	626 Belmont Ave., Westmount, Que.	WE 6742
Jacobson, Eric R.	Grad. Sch.	772 Sherbrooke St. W., Montreal	LA 1567
Jaderholm, Henrik Wilhelm	Grad. Sch.	637 Belmont Street, Montreal	LA 8932
Jamer, Katherine S.	Grad. Nurse 1.	Royal Victoria Hospital, Montreal North Devon, N.B.	PL 1251
James, Benjamin P.	Arts 3.	1414 Fort Street, Montreal 1820 3rd Ave., Watervliet, N.Y.	WI 6266
Jeffrey, Margaret A.	Arts 3.	1711 Queen Mary Rd., Montreal	EL 6102
Jehin de Prume, François	Med. 5.	3484 Ste. Famille St., Montreal 29 West 87th St., New York City, N.Y.	HA 9052



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697

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Jensen, Rev. J. M.	Theol. P.G.	3506 University St., Montreal	MA 2055
Jesse, Frank C.	Grad. Sch.	3555 University St., Montreal	
Johannsen, Alice E.	Arts 1.	4458 Western Ave., Westmount, Que.	WE 4019
Johnson, Alma E.	Arts 3.	3537 Marlowe Ave., Montreal	WA 5683
Johnson, Gordon H.	Arts 3.	4396 Western Ave., Westmount, Que.	WE 4050
Johnson, Harold M.	Arts 2.	4396 Western Ave., Westmount, Que.	WE 4050
Johnson, Irene M.	Arts 2.	Royal Victoria College, Montreal	MA 2810
		715 Prospect Ave., Calgary, Alta.	
Johnson, Marian L.	Phy. Ed. P.	986 Cote des Neiges Rd., Montreal	EL 2872
Johnson, Nancy A.	Arts 3.	46 Trafalgar Ave., Montreal	WE 1571
Johnson, Robert E. L.	Ap. Sci. 3.	536 Grosvenor Ave., Westmount, Que.	WE 2868
Johnson, Ralph T. A.	Arts 1.	1434 Sherbrooke St. W., Montreal	UP 5639
		The Hope, Codrington Hill, St. Michael, Barbados	
Johnson, Walter H.	Arts 2.	536 Grosvenor Ave., Westmount, Que.	WE 2868
Johnston, Charles D.	Arts 4.	3478 McTavish St., Montreal	UP 2143
		12 Des Grisons St., Quebec	
Johnston, Harcourt T.	Arts 4.	3485 McTavish St., Montreal	MA 2720
		Kemptville, Ont.	
Johnston, Herbert C.	Arts 1.	134 Notre Dame St., St. Lambert, Que.	St. Lam. 921
Johnston, Mary K.	Soc. Workers 2.	1222 Mackay St., Montreal	FI 6004
		197 Carling Ave., Ottawa, Ont.	
Johnston, R. Wesley Jr.	Com. 2.	4007 Hampton Ave., Montreal	WA 1486
Johnston, Willard J.	Com. 1.	73 Wolseley Ave., Montreal West	WA 1129
Johnstone, Jean P.	Arts 2.	120 Easton Ave., Montreal West	WA 0415M
		R. R. 2, Brinston, Ont.	
Joliat, Eugene A.	Arts 4.	3546 Park Ave., Montreal	MA 5072
Jolley, Malcolm P.	Ap. Sci. 2.	3549 Jeanne Mance St., Montreal	MA 2941
Joly, John F.	Com. 1.	1160 Laurier Ave., Outremont, Que.	DO 0746
Jones, Eleanor I.	Arts 1.	Royal Victoria College, Montreal	MA 2810
		Bedford, Que.	
Jones, Florence H.	Arts 2.	3841 Wilson Ave., Montreal	EL 4171
Jones, Harrison S.	Music.	47 Strathearn Ave., Montreal	WA 0047
Jones, John M.	Arts P.	380 Argyle St., Verdun, Que.	
		c/o Dr. J. F. Jones, Auckland, N.Z.	
Jones, Norman H.	Med. 3.	3506 University St., Montreal	MA 2055
		Cobden, Ont.	
Jones, Ralph N.	Med. 5.	2015 University St., Montreal	LA 6506
		Colebrook, N.H.	
Jones, Reginald M.	Arts 3.	111 Easton Ave., Montreal West	WA 2891W
Jones, Stewart H.	Med. 3.	1028 Sherbrooke St. W., Montreal	LA 0734
		7 Lansing Ave., Troy, N.Y.	
Joseph, Brenda.	Arts 4.	2150 Sherbrooke St. W., Montreal	WI 8756
Joseph, Henry	Arts 1.	3507 Mountain St., Montreal	UP 1766
Jost, George B.	Ap. Sci. 3.	3605 University St., Montreal	MA 3101
		261 Somerset St., W., Ottawa, Ont.	
Jotcham, Marjorie H.	Arts 4.	4168 Oxford Ave., Montreal	WA 1709
Jotcham, William G. R.	Med. 1.	4168 Oxford Ave., Montreal	WA 1709
Journet, Paul L. M.	Arts 2.	4043 St. Andre St., Montreal	FR 1262
Judd, Ebert E.	Arts 3.	3506 University St., Montreal	MA 2055
		Waltham, Que.	
Judson, Frances C.	Arts 2.	Royal Victoria College, Montreal	MA 2810
		25 Victoria Ave., Brockville, Ont.	
Jue, Gordon J.	Ap. Sci. 3.	670 Lagauchetiere St., W., Montreal	LA 0310
Juzenko, Carl.	Arts 1.	226 3rd Ave., Verdun, Que.	YO 1474J
Kachegensky, Albert A.	Arts 1.	4317 St. Urbain St., Montreal	BE 1693
		315 Main St., Granby, Que.	
Kahne, Isadore E.	Arts 1.	5522 Monkland Ave., Montreal	WA 5339
Kaine, Gerald	Med. 1.	3454 Peel St., Montreal	UP 6788
		48 d'Artigny St., Quebec	
Kalinauski, Alphonse C.	Med. 1.	5850 Waverley St., Montreal	CR 8139
		305 Washington St., Cambridge, Mass.	
Kalman, Max M.	Arch. 5.	504 Harvard Ave., Montreal	EL 1519
Kamarov, Simon A.	Grad. Sch.	c/o Biological Bldg., McGill University	
Kane, John T.	Arts 2.	3575 Shuter St., Montreal	
		87 Front St., Binghamton, N.Y.	
Kaplan, Beatrice M.	Arts 3.	5339 Duquette Ave., Montreal	WA 6819F



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Kaplan, Florence Rose	Grad. Sch.	19 Cote St. Catherine Rd., Outremont	DO 7448
Kaplan, Mildred Q.	Arts 4.	5339 Duquette Ave., Montreal	WA 6819F
Kaplan, Saul	Arts 1.	44 Nelson Ave., Outremont, Que.	DO 5442
Karch, Albert	Grad. Sch.	3486 Berri St., Montreal	HA 3445
Katz, Jack	Arts 4.	5690 Esplanade Ave., Montreal	CR 0909
Katzman, John	Grad. Sch.	3902 St. Urbain St., Montreal	PL 3076
Kaufman, Max S.	Arts 4.	724 Upper Belmont Ave., Westmount, Que.	EL 5010
Kaufman, Mark I. H.	Arts 4.	1525 Closse St., Montreal	WI 7777
Kay, Alan G.	Ap. Sci. 2.	8 St. George's Place, Westmount, Que.	WE 1619
Kay, Muriel G.	Arts 4.	4067 Hingston Ave., Montreal	WA 0463
Kazutow, John	Med. 1.	3455 Hutchison St., Montreal	PL 1712
Keating, Muriel A.	Arts 4.	224 State St., Bangor, Me.	
Keenan, Clifford A.	Com. 3.	6056 Durocher Ave., Outremont, Que.	AT 0229
Keith, Louise R.	Grad. Nurse	1015 Sherbrooke St. W., Montreal	UP 5697
Keller, Hieronimus	Ap. Sci. 2.	Sault Ste. Marie, Ont.	
Kelley, George N.	Dent. 3.	2037 Metcalfe St., Montreal	LA 8053
Kelly, Jerome J.	Med. 5.	211 Oak St., Winnipeg, Man.	
Kelly, Joseph C.	Arts 4.	1532 Burnside Place, Montreal	FI 1926
Kemball, Alfred W.	Arts 3.	648 Marcl Ave., Montreal	EL 4342
Kennedy, C. H.	Theol.	1120 Bernard St., Montreal	AT 5602J
Kennedy, Genevieve M.	Grad. Nurse	Renfrew, Ont.	
Kennedy, George L.	Med. 5.	3419 University St., Montreal	MA 3089
Kennedy, Gerald	Arts 1.	415 Lafayette St., Ogdensburg, N.Y.	
Kennedy, John S.	Arts 1.	2054 Metcalfe St., Montreal	LA 5434
Kenny, Elizabeth M.	Arts 1.	Timmins, Ont.	
Kent, Joseph C.	Med. 5.	3485 McTavish Street, Montreal	MA 2720
Kent, Josephine P.	Grad. Sch.	Stellarton, N.S.	
Kerlages, Frank G.	Arts 1.	525 Prince Arthur St. W., Montreal	MA 6649
Kerr, David M.	Arts P.	Holyrood, Nfld.	
Kerr, Robert A.	Ap. Sci. 1.	3410 Atwater Avenue	FI 2716
Kerry, Esther W.	Arts 2.	Plaza Hotel, Minneapolis, Minn.	
Kershman, Jack	Med. 4.	4342 Harvard Ave., Montreal	EL 2635
Kert, Violet	Music	42 Cardinal Ave., St. Laurent, Que.	BY 0731
Ketcham, John F. A.	Med. 1.	Royal Victoria College, Montreal	MA 2810
Keyfitz, Nathan	Arts 1.	Buckingham, Que.	
Khaner, Miriam	Arts 3.	3469 Hutchison St., Montreal	MA 7224
Kidd, E. Leonard	Arts 1.	228 Doyle Ave., Providence, R.I.	
Kiesenwetter, Theodore N.	Med. 4.	76 N. Pine Ave., Albany, N.Y.	
Kimpton, Geoffrey H.	Arts 1.	4653 Mance St., Montreal	BE 8693F
Kimpton, George B.	Com. 4.	Presbyterian College, Montreal	MA 2720
Kincade, Gordon F.	Med. 5.	Glasgow Station, Ont.	
Kindle, Margaret C.	Phy. Ed. 2.	4765 St. Catherine St. E., Montreal	CL 0529
King, Ethel	Arts 4.	1374 Sherbrooke St. W., Montreal	UP 2521
King, Gilbert H.	Arts 4.	5210 Hutchison St., Outremont, Que.	CR 0970
King, James G.	Ap. Sci. 3.	1525 Closse St., Montreal	WI 9400
Kingston, Edgar L.	Ap. Sci. 1.	3500 Durocher St., Montreal	MA 9759
Kinley, John W.	Med. 5.	Newmarket St., Garden City, L.I., N.Y.	
		3454 Addington Ave., Montreal	WA 4901
		5263 St. Urbain St., Montreal	CR 3619
		2388 Rozel St., Montreal	YO 6669
		3485 McTavish St., Montreal	MA 2720
		170 3rd St., Troy, N.Y.	
		71 Birch Ave., St. Lambert, Que.	St. Lam. 88
		71 Birch Ave., St. Lambert, Que.	St. Lam. 88
		3483 Peel St., Montreal	UP 3215
		59 St. James St., St. John, N.B.	
		1019 Sherbrooke St. W., Montreal	UP 7913
		33 Woodlawn Ave., Ottawa, Ont.	
		Royal Victoria College, Montreal	MA 2810
		199 LeMarchant Rd., St. John's Nfld.	
		3651 St. Urbain St., Montreal	PL 2879
		South Stukely, Que.	
		3445 Ontario Ave., Montreal	UP 3527
		631 Milton St., Montreal	MA 2698
		Box 149, Prescott, Ont.	
		3550 Lorne Ave., Montreal	MA 2693
		104 Hancock Ave., Jersey City, N.J.	



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699

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Kirby, Edward G.	Ap. Sci. 2.	1472 Bishop St., Montreal.	UP 3385
Kirk, William B.	Com. 2.	104 Strathcona Ave., Ottawa, Ont. 1843 Dorchester St., Montreal.	WI 8425
Kirkley, Randolph	Ap. Sci. 1.	Antigonish, N.S. 1290 Bernard Ave. W., Montreal.	AT 6722
Kirsch, Edward	Arts 2.	12 Windsor Ave., Westmount, Que.	WE 8446
Kivenko, Nathan M.	Arts 4.	3961 Clarke St., Montreal.	BE 7035F
Klein, Simon	Dent. 1.	721 Wiseman Ave., Montreal.	AT 3389
Klineberg, Beatrice A.	Arts 1.	4059 Dorchester St. W., Westmount, Que.	FI 9969
Klineberg, Nettey W.	Arts 4.	4059 Dorchester St. W., Westmount, Que.	FI 9969
Kneen, Douglas	Com. 3.	4038 Rosemount Blvd., Montreal.	CL 0813F
Knowles, Frederick	Com. 2.	85 Fourth Ave., Verdun, Que.	YO 2681F
Koerber, Irene V.	Grad. Sch.	3456 Shuter Street, Montreal.	MA 9758
Kohos, Helene	Arts 2.	5 Stearns Court, Northampton, Mass. 4330 Sherbrooke St. W., Westmount, Que.	WE 0504
Kolber, Harry	Law 1.	3893 St. Lawrence Blvd., Montreal.	PL 2632
Kolomeir, Samuel	Arts 1.	125 Mount Royal Ave. W., Montreal.	BE 3667J
Komarov, Simon Andrews	Grad. Sch.	3635 Park Ave., Montreal.	
Korenberg, Louis J.	Ap. Sci. 1.	125 Dante St., Montreal.	CR 5930
Korenberg, Lyon J.	Med. 5.	5491 St. Urbain St., Montreal.	CR 2887
Kositsky, Abraham	Med. 4.	1059 Bernard Ave. W., Montreal.	AT 6524M
Kosowatsky, Joseph R.	Med. 4.	110 Villeneuve St. W., Montreal.	BE 2439
Krakower, Cecil	Med. 4.	5622 Jeanne Mance St., Montreal.	CR 5787
Kramer, Samuel S.	Med. 4.	1431 Bishop St., Apt. 3, Montreal.	UP 3633W
Kritzwisser, Orville E.	Med. 3.	545 Pine Ave. W., Montreal.	MA 1545
Kronick, Samuel A.	Com. 3.	1317 15th Ave., Regina, Sask.	
Kruger, Irving	Dent. 3.	3503 Lorne Ave., Montreal.	MA 2849
Krukowski, Albert C.	Med. 1.	5433 Jeanne Mance St., Montreal.	CR 5806
Kussner, Murray I.	Arts 4.	3419 University St., Montreal.	MA 3089
Kutz, Russell Laurence	Grad. Sch.	21 Ferry Ave., Northampton, Mass. 405 St. Joseph Blvd., Montreal.	DO 6919
Kwauk, Stephen S.	Med. 4.	1832 Bayle St., Montreal.	WI 0753
Kyle, George A.	Com. 4.	772 Sherbrooke St. W., Montreal. Chung Hwa Studio, Nanking Rd., Shanghai, China.	LA 1567
Labelle, Dorothy E.	Arts 2.	467 Cote St. Antoine Rd., Westmount, Que.	WE 2495
Labovitch, Israel	Phar. 2.	5602 Hutchison St., Outremont, Que.	CR 7451
Lack, David M.	Law 2.	4160 St. Lawrence St., Montreal.	PL 3721
Lacoursiere, Arthur	Arch. 1.	232 St. Joseph Blvd. W., Montreal.	BE 3663
Lacy, Curtis R.	Med. 2.	3648 Park Ave., Montreal. Shawinigan Falls, Que.	HA 0857
Lafave, Wallace John Jr.	Arts 4, Med. 1.	3485 McTavish St., Montreal.	MA 2720
Lafleur, John T.	Arts 2.	Freehold, N.Y. 32 Courcellette Ave., Outremont, Que.	AT 0343
Lagacé, Alphonse	Com. 2.	3527 Ontario Ave., Montreal.	UP 3838
Laing, John A.	Com. 2.	59 Westend Ave., Outremont, Que.	AT 0352
Laird, Gretna G.	Arts 1.	3434 McTavish St., Montreal.	UP 8633
Laird, Robert P.	Arts 3.	Simcoe, Ont. 1280 Bernard Ave., Apt. 18, Montreal.	AT 3158
Lake, Arthur W. L.	Arts 2.	20 Anwoth Rd., Westmount, Que.	WE 1253
Laliberte, Arsene A.	Ap. Sci. 1.	Apt. 12, 227 Sherbrooke St. W., Montreal.	HA 4062
Lambert, Percival J.	Arts 1.	Vernons Estate, Antigua, W.I. 2048 City Councillors St., Montreal.	LA 7968
Lamoureux, Marcel	Ap. Sci. 3.	Raith, Ont. 3506 University St., Montreal.	MA 2055
Lancey, Margaret S.	Arts 3.	Rea, Skibbereen, Co. Cork, Ireland 3484 St. Famille St., Montreal.	HA 9052
Lande, Harold B.	Law 1.	St. Guillaume, Yamaska, Que. 369 Metcalfe Ave., Westmount, Que.	WE 0426
Lane, Phyllis A.	Arts 3.	Hudson, Que. 39 Holton Ave., Montreal.	WE 0215
Lang, Abraham I.	Law 2.	1225 Bernard Ave., Outremont, Que.	AT 6969
Lang C.	Theol. 1.	4900 Clarke St., Apt. 5, Montreal.	BE 5486
		3473 University St., Montreal.	MA 4902
		Charteris, Que.	



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Lang, Howard J.	Ap. Sci. 1	3578 University St., Montreal	MA 1074
Lang, John George	Grad. Sch.	215 Blair Rd., Galt, Ont. Macdonald College, Que.	St. Anne 85
Lang, Robert C.	Arts P.	"Fernbank," 20 Rankine St., Dundee, Scotland 3473 University St., Montreal	MA 4902
Langevin, Wilfred	Law 1	R.R. No. 1, Charteris, Que.	
Langlais, Paul	Law 2	2261 Gouin Blvd., Cartierville, Que.	BY 1193
Langlois, Remy	Dent. 3	374 Claremont Ave., Westmount, Que.	WE 8868
Langshaw, Beatrice	Music	8 Berniere Ave., Quebec, Que.	
Langstaff, Thomas A. K.	Com. 3	1229 Mountain St., Montreal	LA 1932
Lapin, Abraham	Dent 2	124 Park Ave., Que.	
Lapin, Albert W.	Arts 4, Med. 1	2066 Mansfield St., Montreal	LA 4702
Lapointe, Jules T.	Com. 1	Granby, Que.	
Larminie, Greta C. S.	Arts 2	3434 McTavish St., Montreal	UP 8633
Larocque, Gerard	Ap. Sci. 3	Kemptville, Ont.	
Larocque, Joseph P.	Arts 1	5465 Esplanade Ave., Montreal	CR 4335
Larsen, Axel P. L.	Lib. Sch.	5835 Hutchison St., Montreal	CR 6486
Latham, James A.	Grad. Sch.	749 De L'Épée Ave., Outremont, Que.	AT 7893W
Latulipe, J. Emile Jr.	Law 3	11 Springfield Ave., Westmount, Que.	WE 2712
Laurie, Hope H.	Phy. Ed. 2	367 Sherbrooke St. W., Montreal	LA 2979
Laurier, Mario	Law 1	160 Sussex St., Ottawa, Ont.	
Lavallie, Edouard	Grad. Sch.	316 Querbes Ave., Outremont, Que.	AT 2069
Lavoie, Vincent L.	Com. 1	536 Pine Ave., Montreal	MA 6467
Lavut, Leo D.	Arts 2	1267 St. Mark St., Montreal	FI 5106
Law, James R.	Arts 1	84 Arlington Ave., Westmount, Que.	WE 6680
Law, M. Fong	Arts 2	653 Victoria Ave., Westmount, Que.	EL 1860
Lawley, John Douglas	Grad. Sch.	1196 Visitation St., Montreal	CH 9155
Lawrence, Shirley H.	Arts 2	St. Antoine, Co. Vercheres, Que.	
Lax, Barbara A.	Arts 1	230 Belfrage Rd., Westmount, Que.	EL 3103
Lax, Brana	Arts 2	288 Villeneuve St. W., Montreal	BE 3909
Lazarus, Emily	Arts 1	190 Laurier Ave., E., Ottawa, Ont.	
Lazarus, Mildred	Arts 1	177 Lagauchetiere St., Montreal	
Lea, Harry W.	Ap. Sci. 4	901 Columbian St., New Westminster, B.C.	
Lea, William C.	Ap. Sci. 3	5166 Sherbrooke St. W., Montreal	WA 5594F
Learmonth, Janet M.	Phy. Ed. 2	Royal Victoria College, Montreal	MA 2810
LeBel, Louis P.	Arts 1	744 Watchung Ave., Plainfield, N.J.	
Lebolduc, Michael W.	Med. 3	3454 University St., Montreal	MA 2610
Lecky, William J.	Ap. Sci. 3	Scotstown, Que.	
LeCluire, Gordon M.	Arts 2	819 Stuart Ave., Outremont, Que.	AT 4831
Ledingham, Eleanor J.	Phy. Ed. 1	3562 Vendome Ave., Montreal	WA 0766W
Lee, George Tseu-Chuck	Arts 1	745 Rockland Ave., Outremont, Que.	AT 2395
Lee, Priscilla	Arts 1	1951 Bayle St., Montreal	WI 1672
Legault, Joseph T. Jr.	Law 3	3592 University St., Montreal	MA 4479
Leggat, M. Jane	Arts 4	Victoria, P.E.I.	
LeGrow, Charles L.	Med. 2	236 Wood Ave., Westmount, Que.	WE 8638
LeGrow, Walter H.	Arts 2	1915 5th St. W., Calgary, Alta.	
Lehman, Elspeth E.	Arts 1	United Theological College, Montreal	MA 2055
Leibovitz, Sylvia J.	Arts 2	Namur, Co. Papineau, Que.	
		3542 Mance St., Montreal	HA 2958
		Vibank, Sask.	
		163 Cote des Neiges Rd., Montreal	UP 5735
		2377 St. James St., Montreal	WI 0967
		3466 University St., Montreal	MA 2608
		170 Mt. Pleasant Ave., St. John, N.B.	
		189 Dorchester St. W., Montreal	LA 9350
		Hoi Ping, Canton, China	
		1681 LaSalle St., Montreal	CL 0231
		3433 Stanley St., Montreal	UP 3787
		3420 Hutchison St., Montreal	LA 0442
		Broad Cove, B.D.V., Nfld.	
		3506 University St., Montreal	MA 2055
		Broad Cove, Nfld.	
		7341 LaSalle Blvd., Verdun, Que.	
		5718 Notre Dame de Grace Ave., Montreal	EL 4269



# DIRECTORY OF STUDENTS

701

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Leigh, Morton D.	Med. 4	495 Prince Arthur St., Apt. 22, Montreal	MA 5501
Leimbach, John H. Jr.	Med. 1	Revelstoke, B.C. 510 Pine Ave. W., Montreal	HA 2970
Leithman, Ezra	Law 3	Isleton, Cal. 4315 Henri Julien Ave., Montreal	LA 0481
LeMoine, John G. M.	Law 3	1390 Sherbrooke St. W., Apt. 35, Montreal	UP 4335
Lent, Sylvester M.	Med. 2	3671 Jeanne Mance St., Montreal	HA 8536
Leonard, Maurice E.	Med. 4	Greenwich, Conn. 2019 Peel St., Montreal	MA 2704
Le Page, Inez Marguerite	Grad. Sch.	639 Buena Vista Ave., San Francisco, Cal.	
Lepine, V. Champlain	Com. 2	485 Raglan Rd., Winnipeg, Man. 3580 Durocher St., Montreal	MA 4059
Lerner, Esther S.	Arts 2	129 Manseau St., Joliette, Que.	
Leroux, Andre G.	Com. 2	4598 St. Urbain St., Montreal	BE 6255
Leslie, Charles W.	Law 3	3686 St. Hubert Blvd., Montreal	HA 5461
Lessor, Edward	Arts 3	4314 Montrose Ave., Westmount, Que.	WE 4025
Lester, Harold Good	Theol. 2	6175 Durocher Ave., Montreal	AT 6630
Letch, Edward H.	Arts 2	550 Ash Ave., Point St. Charles	YO 5226W
Letch, Harry G.	Ap. Sci. 4	66 Oak Ave., St. Lambert, Que.	St.Lam.889
Letendre, Gerard	Ap. Sci. 3	66 Oak Ave., St. Lambert, Que.	St.Lam.889
*Letourneau, Jean L.	Com. 1	1022 Mt. Royal Ave. E., Montreal	FR 7066
*Levikoff, Sarah S.	Grad. Nurse 1	3429 St. Denis St., Montreal	HA 6628
Levin, Arthur	Arts 1	214 St. Francois St., Quebec	
Levin, Herman	Arts 2	4036 Vendome Ave., Montreal	WA 4705J
Levine, Rachmiel	Arts 3	610 Belmont Ave., Westmount, Que.	WE 2847
Levine, Theodore I.	Law 1	610 Belmont Ave., Westmount, Que.	WE 2847
Levitsky, Nathan A.	Arts 4	504 Duluth St. E., Montreal	HA 8810
Levitt, Edith	Arts 1	4045 Northcliffe Ave., Montreal	WA 8391W
Levitt, Jacob	Arts 3	380 Edward Charles St., Apt. 5, Montreal	DO 3338
Levitzky, Philip	Med. 2	real	
Levy, Nathaniel L.	Arts 3	5681 Esplanade Ave., Montreal	CR 9665
Levy, Sidney H.	Arts 2	323 Grosvenor Ave., Westmount, Que.	WE 8948
Levy, Yvette	Arts 4	67 St. Joseph Blvd. W., Montreal	BE 8911W
Lewandowsky, Bogdan	Arts 1	488 Strathcona Ave., Westmount, Que.	WE 2256
Lewis, Alfred H.	Arts 1	488 Strathcona Ave., Westmount, Que.	WE 2256
Lewis, David	Arts 4	3473 Shuter St., Montreal	
Lewis, Reuben	Arts 3	4312 St. Catherine St. W., Westmount, Que.	WE 0932J
Lilley, George W.	Arts 1	3507 University Street, Montreal	MA 6880
Lincoln, John H.	Com. 2	616 W. 184th St., New York City, N.Y.	
Lindeburgh, Marion	Arts P.	4441 Clarke St., Montreal	BE 5450M
Lindsay, Victor C.	Ap. Sci. 2	4679 Esplanade Ave., Montreal	BE 2178
Lindsey, Ross O.	Ap. Sci. 1	3575 Shuter St., Montreal	MA 8584
Linton, Everett P.	Grad. Sch.	703 Edgemont Ave., Chester, Pa.	
Linton, Ralph D.	Com. 2	426 Grosvenor Ave., Westmount, Que.	WE 1770
Lippincott, Stuart W.	Med. 1	1921 10 1/2 St. W., Calgary, Alta.	
Lirot, Stephen L. R.	Med. 4	3560 Peel St., Montreal	PL 1251
Lister, William	Theol.	c/o Dr. Mackay, Tisdale, Sask.	
Litner, David L.	Law 3	772 Sherbrooke St. W., Montreal	LA 1567
Little, Nettie B.	Grad. Nurse 1	Revelstoke, B.C.	
Little, Sidney C.	Arts P.	497 Mt. Pleasant Ave., Westmount, Que.	WE 1452
Littlefield, Leland A.	Med. 5	1180 Drummond St., Montreal	LA 9787
		3530 Belmore Ave., Montreal	WA 2974
		3532 Lorne Ave., Montreal	MA 5992
		4 Barnes Ave., Worcester, Mass.	
		1923 Dorchester St. W., Montreal	WI 5186
		28 Crown St., Meriden, Conn.	
		3506 University St., Montreal	MA 2055
		2220 Melrose Avenue, Montreal	
		415 Mt. Royal Ave. W., Montreal	DO 8716
		1627 Lincoln Ave., Apt. 7, Montreal	FI 6072
		Leamington, Ont.	
		3473 University St., Montreal	MA 4902
		2019 Peel St., Montreal	MA 2704
		41 Orchard St., Cambridge, Mass.	

\*Left early in the session.



NAME

FACULTY AND YEAR

ADDRESS

TEL. NO.

Where two addresses are given, the second is the home address

Livshitz, Manuel	Arts 2	4464 Sherbrooke St. W., Westmount, Que.	WE 1976
Lloyd, David C. P.	Arts 3	3521 University St., Montreal	MA 1718
Lloyd, Robert E.	Arts 2	59 Prospect St., Westmount, Que.	WE 6961
Lochhead, Donald R.	Arts 1	42 10th Ave., Lachine, Que.	Lach. 337
Lochhead, Gordon W.	Com. 4	309 Brock Ave. N., Montreal West	WA 0498
Lochhead, Kenneth Y.	Ap. Sci. 3	42 10th Ave., Lachine, Que.	Lach. 337
Locke, Julia T.	Arts P	1840 Bayle St., Montreal	WI 6534
		c/o H. U. P. Aylmer, Lac Cornu, Argenteuil Co., Que.	
Lockwood, Clarence K.	Ap. Sci. 1	602 Cote St. Antoine Rd., Westmount, Que.	WE 5507
Lonergan, Gerald M.	Ap. Sci. 1	2064 Mansfield St., Montreal	LA 6825
		Box 395, Buckingham, Que.	
Long, Lester W.	Med. 1	640 Prince Arthur St. W., Montreal	MA 9531
		Convoy, Ohio	
Longan, Virginia L.	Grad. Sch.	891 Stuart Ave., Outremont	AT 2160M
		Sedalia, Mo., U.S.A.	
Loomis, Gordon B.	Med. 3	3661 Jeanne Mance St., Montreal	HA 7389
		159 Queen St., Sherbrooke, Que.	
Loomis, James G. M.	Arts 1	1694 Lincoln Ave., Montreal	UP 3511
Loucks, James N.	Com. 3	4554 Oxford Ave., Montreal	EL 5462
Louis, Max A.	Arch. 2	4217 Western Ave., Westmount, Que.	WE 9247
Loures, Peter H.	Med. 1	1211 Mountain St., Montreal	MA 8767
		165 Worthen St., Lowell, Mass.	
Lovering, William L.	Com. 3	3637 University St., Montreal	MA 1824
		76 Glen Rd., Toronto, Ont.	
Low, John H. Jr.	Dent. 3	3443 St. Famille St., Montreal	PL 5096
		Westport, N.Y.	
Low, John H.	Arts P	3506 University St., Montreal	MA 2055
		44 Conifer Gdns, London, S.W. 16, England	
Lowry, Hope	Grad. Sch.	South Hall, Adrian College, Adrian, Mich.	
Lucas, Mary I.	Grad. Nurse 1	3638 Lorne Crescent, Montreal	MA 7132
		Lefroy, Ont. (RR. No. 5)	
Luft, Raymond	Med. 2	2019 Peel St., Montreal	MA 2704
		Norwood, R.I.	
Luke, Josephus C.	Med. 5	41 Brock Ave. N., Montreal West	WA 0710
Luke, Lewis, W.	Ap. Sci. 1	1170 Dorchester St. W., Montreal	MA 6933
Lunn, Alice J. E.	Arts 3	458 Argyle Ave., Westmount, Que.	WE 1630
Lusby, Geo. Russell	Grad. Sch.	1180 Drummond St., Montreal	LA 9787
Lusher, David W.	Arts 3	3812 Clarke St., Montreal	PL 7332
Lynch, Herbert C.	Med. 3	640 Prince Arthur St. W., Montreal	MA 9531
		Naches Ave., Yakima, Wash.	
Lynch, John G.	Med. 4	3637 University St., Montreal	MA 1824
		Bell Island, Nfld.	
Lynch, Lilian	Grad. Nurse 1	1201 Dorchester St. W., Montreal	MA 7366
		Westbourne, Man.	
Lynch, Margaret J.	Arts P	339 Victoria Ave., Westmount, Que.	WE 3032
		Yakima, Wash.	
Lynch, Marjorie	Arts 2	505 Victoria Ave., Westmount, Que.	WE 9197
Lynn, Joseph H.	Arts P	3506 University St., Montreal	MA 2055
		40 Stratheden St., Belfast N. I.	
Lyon, Harold P.	Arts 3	4102 Hingston Ave., Montreal	WA 6028
Lyons, Walter	Grad. Sch.	650 Sherbrooke St. W., Montreal	LA 5661
		664 W. 161st St., New York City	
Lyth, Phyllis	Phy. Ed. 2	1019 Sherbrooke St. W., Montreal	UP 7913
		Valleyfield, Que.	
Lysons, Katharine E.	Arts 1	28 Finchley Rd., Hampstead, Que.	EL 5064
Lytte, Nancy P.	Arts 1	90 34th Ave., Lachine, Que.	Lach. 353
Macalister, John N. G.	Arts 4	1936 Comte St., Montreal	WI 3939
McAuley, Bertram D.	Ap. Sci. 4	1445 Metcalfe St., Montreal	LA 9982
		200 Adelaide St., St. John, N.B.	
McAuley, Mary A.	Arts 2	Royal Victoria College, Montreal	MA 2810
		1 Court House Sq., Brockville, Ont.	
McBeath, E. H.	Ap. Sci. 3	1428 Fort St., Montreal	WI 9588
		203 Highfield St., Moncton, N.B.	
McBride, Eleanor C.	Arts 3	638 Roslyn Ave., Westmount, Que.	EL 4064



# DIRECTORY OF STUDENTS

703

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
MacBrien, James R.	Arts 1.	3434 McTavish St., Montreal	UP 8633
		45 Metcalfe Sq., Ottawa, Ont.	
McBryer, Margaret J.	Arts 1.	4640 Grosvenor Ave., Westmount, Que.	EL 3002
McCaffrey, Helen K.	Arts 3.	428 Metcalfe Ave., Westmount, Que.	WE 1956
McCausland, Wm. A.	Med. 1.	650 Sherbrooke St. W., Apt. 5, Montreal	LA 5661
		123 Franklin St., Quincy, Mass.	
McConnell, Georgina	Soc. Workers 1.	4652 Sherbrooke St. W., Westmount, Que.	WE 6528
McConnell, John G.	Arts 2.	1475 Pine Ave. W., Montreal	UP 1612
McCoey, Daniel F.	Med. 1.	2082 University St., Montreal	LA 7548
		Dover, N.H.	
McCormick, Douglas G.	Com. 2.	3434 McTavish St., Montreal	UP 8633
		18 Brant Rd. N., Galt, Ont.	
McCormick, George A.	Arts 4.	3609 University St., Montreal	MA 4300
		383 Wilbrod St., Ottawa, Ont.	
McCormick, George W.	Med. 1.	650 Sherbrooke St. W., Montreal	LA 5661
		523 John St., Clayton, N.Y.	
McCormick, Paul H.	Com. 3.	3578 University St., Montreal	MA 1074
		18 Brant Rd. N., Galt, Ont.	
McCoy, E. Clarence	Arts 1.	United Theological College, Montreal	MA 2055
		Huntingdon, Que.	
McCrimmon, Donald R.	Med. 2.	772 Sherbrooke St. W., Montreal	LA 1567
		Huntingdon, Que.	
McCrimmon, Frederick G.	Med. 5.	772 Sherbrooke St. W., Montreal	LA 1567
		Huntingdon, Que.	
McCuaig, Hugh R.	Com. 3.	13 Holton Ave., Montreal	FI 4221
MacCulloch, M. Margaret	Arts 2.	Royal Victoria College, Montreal	MA 2810
		Summerstown, Ont.	
McCullough, Harold A.	Arts 1.	772 Sherbrooke St. W., Montreal	LA 1567
		56 Queen St., Sherbrooke, Que.	
McCully, Clarence M.	Arts 4.	2054 Metcalfe St., Apt. 7, Montreal	LA 5434
		Petitcodiac, N.B.	
McCurdy, Allene V.	Phy. Ed. 1.	3466 University St., Montreal	MA 2608
		Baddeck, Cape Breton	
McCurdy, Donald R.	Arts 4.	3478 McTavish St., Montreal	UP 2143
		Emscote, Halifax, N.S.	
Macdonald, Aida R.	Arts 2.	3457 Shuter St., Montreal	MA 7669
Macdonald, Elena B.	Arts 1.	Royal Victoria College, Montreal	MA 2810
		192 MacLaren St., Ottawa, Ont.	
MacDonald, E. Naomi	Arts 2.	Royal Victoria College, Montreal	MA 1439
		20 Mountain St., Granby, Que.	
Macdonald, Gordon S.	Arch. 1.	3534 University St., Montreal	MA 3448
		Box 686, Sydney, N.S.	
MacDonald, Ida E.	Soc. Workers 1.	1032 Cote des Neiges Rd., Apt. 6, Montreal	EL 2733
MacDonald, Jean	Music	Royal Victoria College, Montreal	MA 2810
		Box 800, Granby, Que.	
McDonald, Jean LeM.	Arts 2.	47 Windsor Ave., Westmount, Que.	WE 6665
McDonald, Philip R.	Med. 2.	47 Windsor Ave., Westmount, Que.	WE 6665
MacDonald, Reta E.	Arts P.	4358 St. Catherine St. W., Westmount, Que.	WE 1278
MacDougall, Gordon H.	Arts 1.	3534 Ontario Ave., Montreal	UP 4532
MacDougall, John Fred	Grad. Sch.	3436 Shuter St., Montreal	
		9910-103 St., Edmonton, Alta.	
MacDougall, John R.	Arts 1.	3489 Atwater Ave., Montreal	WI 3203
McDowell, Edith M.	Grad. Nurse 1	5236 Esplanade Ave., Montreal	CR 9146
		Brandon, Man.	
McDunnough, Phillip N.	Ap. Sci. 2.	Strathcona Hall, Montreal	LA 1567
		11 Fraser St., Quebec	
McEntyre, John G.	Arts 1.	4101 Sherbrooke St. W., Westmount, Que.	WE 4113
McEwen, Bennett B.	Med. 4.	3506 University St., Montreal	MA 2055
		Maxville, Ont.	
McEwen, Nelson F.	Arts 3.	1515 Chomedy St., Apt. 2, Montreal	WI 9052
McGarland, Frederick J.	Com. 2.	3581 University St., Montreal	MA 3842
		1014 Hillcrest Ave., Calgary, Alta.	
Macfarlane, Anne M.	Lib. Sch.	635 Sydenham Ave., Westmount, Que.	WE 4144
MacFarlane, Gordon N.	Arts 3.	820 Dunlop Ave., Outremont, Que.	AT 2635



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
McNamee, Helen M.	Arts 1.	281 Querbes Ave., Outremont, Que.	AT 1497
McNamee, Kenneth F.	Arts 4.	281 Querbes Ave., Outremont, Que.	AT 1497
McNamee, Thomas F.	Law 3.	281 Querbes Ave., Outremont, Que.	AT 1497
McNaughton, Francis L.	Med. 5.	4565 Sherbrooke St. W., Westmount, Que.	WE 1408
McNaughton, John G.	Arts 4.	4565 Sherbrooke St. W., Westmount, Que.	WE 1408
McNaughton, Malcolm E.	Ap. Sci. 3.	4565 Sherbrooke St. W., Westmount, Que.	WE 1408
MacNeill, John C.	Arts 2.	67 McTavish St., Montreal.	MA 2720
McNiff, Nelson E.	Arts 3.	5380 Brodeur Ave., Montreal.	WA 3897
McNutt, Ruth G.	Arts 1.	Ste. Anne de Bellevue, Que.	Ste. A 291
MacNutt, William M.	Com. 1.	3438 Peel St., Montreal.	UP 3215
McOuat, Gordon A.	Arts 1.	Princetown, P.E.I. 1028 Sherbrooke St., Montreal.	LA 0734
Macphail, Margaret S.	Com. 2.	Lachute Mills, Que. Royal Victoria College, Montreal.	MA 2810
McPhail, M. K.	Grad. Sch.	South Porcupine, Ont. 3635 Lorne Crescent, Montreal.	MA 8729
McRae, Donald C.	Com. 1.	628 10th St., New Westminster, B.C. 143 Ballantyne Ave. N., Montreal.	WA 8222
Macrae, Donald H.	Med. 1.	West. 3478 McTavish St., Montreal.	UP 2143
MacRae, Jessie H.	Soc. Workers 1.	905 4th Ave. N., Gt. Falls, Mont. 1557 St. Mark St., Apt. 2, Montreal.	FI 3443
MacRae, Malcolm.	Arts 1.	New Germany, N.S. 3506 University St., Montreal.	MA 2055
McRobie, Donald R.	Com. 1.	R.R. 2, Lancaster, Ont. 647 Grosvenor Ave., Westmount, Que.	EL 6767
McTaggart, Betty A.	Arts 1.	4300 Delorimier Ave., Montreal.	AM 5388
McTeer, George S.	Com. 4.	690 Sherbrooke St. W., Montreal.	LA 7141
McVey, George A.	Arts P.	1934 12th St. W., Calgary, Alta. 468 Mt. Stephen Ave., Westmount, Que.	WE 3876
McVey, Velma A.	Arts 2.	184 Macaulay Ave., St. Lambert, Que.	St. Lam. 652M
Mace, John P. M.	Arts 1.	4834 St. Urbain St., Montreal.	BE 5432J
Macey, Henry P.	Med. 4.	3535 Shuter St., Montreal.	PL 1743
Macklin, Lionel Stewart.	Grad. Sch.	Minnedosa, Man. 3485 McTavish St., Montreal.	MA 2720
Macorquodale, D. Fraser.	Arts 2.	48 Cathedral Ave., Winnipeg, Man. 77 Drummond Apts., Drummond St., Montreal.	MA 7156
Magee, Jean E.	Arts 3.	251 Milton St., Montreal.	PL 3909
Magil, Louis B.	Arch 1.	6608 Laburnum St., Vancouver, B.C.	CR 3769
Magill, Robert M.	Arts P.	5247 Clarke St., Montreal.	MA 2720
Mahar, Frederick J.	Arch. 1.	Presbyterian College, Montreal. The Manse, Monklands, Ont.	MA 3842
Mahoney, Joseph J. B.	Med. 3.	3581 University St., Montreal. 11 Young Ave., Halifax, N.S.	UP 0715
Makiyama, Take R.	Arts 4.	1441 Crescent St., Montreal. 3 Falls Ave., Norwich, Conn.	WA 6919
Malinsky, Maurice L.	Med. 4.	3498 Vendome Ave., Montreal.	BE 2759
Malloy, Connolly J.	Med. 3.	62 Tansumachi Azaku, Tokyo, Japan 245 Villeneuve St. W., Montreal.	BE 2759
Malouf, Philip K.	Arts 1.	3525 Durocher St., Montreal.	BE 6446
Mandel, Bernard.	Arts 3.	Blind River, Ont. 4629 Park Ave., Montreal.	CR 9660
Manson, Bruce.	Com. 1.	5178 St. Urbain St., Montreal.	UP 6788
Manson, Isabel S.	Grad. Sch.	3454 Peel St., Montreal. 306 Driveway, Ottawa, Ont.	LA 8686
Marcus, Albert.	Arts 4.	University Settlement, 257 Dorchester St. W., Montreal.	DO 4008
Marcus, Sarah.	Arts 4.	c/o Mrs. G. V. Read, Spruce Lake, Sask. 385 Edward Charles St., Apt. 11, Montreal.	CR 3993
Margolick, Moses.	Arts 4, Med. 1.	266 Bernard St., Montreal.	AT 5102
Markey, Donald C.	Arts 2.	349 Maplewood Ave., Montreal.	WI 6333



# DIRECTORY OF STUDENTS

707

NAME

FACULTY AND YEAR

ADDRESS

TEL. NO.

Where two addresses are given, the second is the home address

Markey, Henry T.	Ap. Sci. 4.	2133 Dorchester St. W., Montreal.	WI 6333
Markwell, Gwendoline P. G.	Arts 1.	341 Argyle Ave., Verdun, Que.	YO 7762W
Marler, John de M.	Law 2.	3420 Peel St., Montreal.	UP 1518
Marshall, Adam S.	Ap. Sci. 3.	4446 Old Orchard Ave., Montreal.	EL 3072
		175 Denis St., Sault Ste. Marie, Ont.	
Marshall, Arthur J.	Arts 2.	3473 University St., Montreal.	MA 4902
		132 Carr Road, Walthamstow, London, England	
Marshall, Margaret E.	Phy. Ed. 2.	2019 Stanley St., Montreal.	LA 0898
		Dunnville, Ont.	
Martin, Earl P.	Arts 1.	2064 Mansfield St., Montreal.	LA 6825
		Buckingham, Que.	
Martin, Henry D.	Arts 2.	3062 Westmount Blvd., Westmount, Que.	WE 9892
Martin, Lemuel V.	Arts 1.	3062 Westmount Blvd., Westmount, Que.	WE 9892
Mason, E. Barrett.	Arts 4.	3581 University St., Montreal.	MA 3842
		Glens Falls, N.Y.	
Mason, Freda K.	Arts 2.	Royal Victoria College, Montreal.	MA 2810
		Lachute, Que.	
Mason, Harry E.	Grad. Sch.	1025 Sherbrooke St. W., Montreal.	UP 4418
		71 Orange St., St. John, N.B.	
Mason, John W.	Med. 4.	3566 Lorne Ave., Montreal.	MA 8812
		Sharon, Vt.	
Mason, Orley B.	Ap. Sci. 2.	3581 University St., Montreal.	MA 3842
		c/o J. O. Mason, Grand Mere, Que.	
Masse, Gaston W.	Ap. Sci. 4.	3740 St. Hubert St., Montreal.	LA 9769
		14 Aberdeen St., Sherbrooke, Que.	
Masse, Jules T.	Med. 3.	367 St. Louis Sq., Montreal.	HA 3757
Massey, Ernest Edward.	Grad. Sch.	470 Prince Arthur St. W., Montreal.	
		Richmond, Que.	
Masson, William M. G.	Arts 1.	Presbyterian College, Montreal.	MA 2720
		Shawville, Que.	
Mastrianni, Michael A.	Arts 3.	3500 Shuter St., Montreal.	MA 9915
		46 Warsaw Ave., Mechanicville, N.Y.	
Matheson, Arthur I.	Com. 3.	3434 McTavish St., Montreal.	UP 8633
		24 Woodlawn Ave., Ottawa, Ont.	
Matthams, Philip.	Theol. 3.	772 Sherbrooke St. W., Montreal.	LA 1567
Matthews, Florida Louise.	Grad. Sch.		
		2121 Chestnut Street, Louisville, Ky.	
Matthews, Thomas M.	Med. 1.	252 Pine Ave., W., Montreal.	HA 3889
		Glenister, Alta.	
Mattison, Berwyn F.	Med. 1.	631 Milton St., Montreal.	MA 2698
		Fort Ann, N.Y.	
Mattson, John R.	Ap. Sci. 3.	480 Prince Arthur St., Montreal.	UP 4593
Maughan, George B.	Med. 2.	38 Edgehill Rd., Westmount, Que.	WE 5952
Maxwell, Charles S.	Arts 2.	102 Mercier St., St. Johns, Que.	St. J. 629M
Maxwell, Jean M.	Arts 2.	182 Ballantyne Ave. S., Montreal	
		West.	WA 7505W
Maxwell, Mary.	Arts P.	1548 Pine Ave., W., Montreal.	
Mayburry, Thomas G.	Com. 3.	2019 Stanley St., Montreal.	UP 8633
		40 Nepean St., Ottawa, Ont.	
Maybury, Muriel P.	Arts 1.	3597 St. Urbain St., Apt. 9, Montreal.	HA 5834
Maycock, William O.	Med. 1.	772 Sherbrooke St. W., Montreal.	LA 1567
		c/o M. F. Waters, Lincoln's Inn Fields, London, W.C., England.	
Mayerovitch, Harry.	Arch. 3.	3505 Lorne Ave., Montreal.	MA 2849
		Rockland, Ont.	
Mayerovitch, Robert.	Ap. Sci. 2.	3505 Lorne Ave., Montreal.	MA 2849
		Rockland, Ont.	
Mayoff, Moses.	Med. 1.	379 Edward Charles St., Apt. 4, Montreal.	DO 6595
Maytum, Helen E.	Med. 5.	548 Prince Arthur St. W., Montreal.	MA 7845
		Fowler, Kansas	
Meagher, Barbara M. K.	Arts P.	537 Pine Ave. W., Montreal.	MA 6688
Meakins, George G.	Com. 2.	3454 Peel St., Montreal.	UP 6788
		48 Proctor Blvd., Hamilton, Ont.	
Mellor, Alfred G.	Ap. Sci. 1.	619 Belmont Ave., Westmount, Que.	WE 6391
Mellor, Cedric D.	Com. 2.	4467 Melrose Ave., Montreal.	EL 2741
Melville, Kenneth Ivan.	Grad. Sch.	c/o Biological Bldg., McGill University.	



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Melynychuk, John A. F.	Med. 3	3542 Mance St., Montreal	HA 2958
Mendels, Morton M.	Law 2	9300 Cottage Grove, Chicago, Ill. 3507 University St., Montreal	MA 8868
Mendelsohn, Bernard	Arts 1	3749 Wellington St., Verdun, Que.	
Mendelsohn, Lewis	Ap. Sci. 2	3756 St. Lawrence St., Montreal	PL 5442
Mendelsohn, Sarah E.	Arts 3	2086 Tupper St., Montreal	WI 7585
Mendelsohn, Manuel J.	Arch 2	40 Joyce Ave., Montreal	AT 4797
Mercer, John L.	Med. 2	5462 Park Ave., Montreal	CR 6957
Mercer, William C.	Arts 2	495 Prince Arthur St. W., Montreal Malone, N.Y.	MA 8867
Merrett, John C.	Arch. 5	3506 University St., Montreal Bay Roberts, Nfld.	MA 2055
Merrick, Hollis W.	Med. 3	3200 Westmount Blvd., Westmount, Que.	WE 5367
Mertz, Maxine Helen	Music	539 Pine Ave., Montreal	MA 7818
Mersereau, Harris C.	Arts 4	Fort Covington, N.Y.	
Messinger, Herbert B.	Med. 5	130 McGregor St., Montreal	UP 4360
Metcalfe, Robert V.	Arts P.	1441 Mackay St., Montreal	
Metrakos, Spero	Arts 1	2061 St. Luke St., Montreal	WI 9664
Miall, Pauline A. M.	Arts 1	175 Albemarle St., Rochester, N.Y. 3473 University St., Montreal	MA 4902
Michaels, John	Arts P.	14 Main St., Aylmer, Que.	
Michalopoulos, Theodore S.	Grad. Sch.	7502 DeL'Epée Ave., Outremont, Que.	AT4303W
Mickles, Mary M.	Arts 1	Hotel Wilhelmina, Mountain St.	UP 5346
Middleton, Oliver	Ap. Sci. 4	c/o Justice Dept., Ottawa, Ont.	
*Mignault, Marguerite	Arts P.	53 Arlington Ave., Westmount, Que.	WE 2086
Milburne, Kathleen E.	Arts 4	772 Outremont Ave., Outremont	
Millar, Mary E.	Arts 1	1490 Pine Ave. W., Montreal	FI 2939
Miller, Alice E.	Arts 1	3559 University St., Montreal	MA 4418
Miller, Errol L.	Arts 1	685 Dunlop Ave., Outremont, Que.	AT 0711
Miller, Gita	Music	4221 Oxford Ave., Montreal	WA 1039
Miller, Lindsay	Ap. Sci. 2	3454 University St., Montreal	MA 2610
Miller, Margaret A.	Arts 1	242 Isabella St., Pembroke, Ont.	
Miller, Mary K.	Grad. Nurse 1	49 Nelson St., Montreal West	WA 1984
Milligan, Margaret E.	Arts 4	5849 Mance St., Montreal	CR 5113
Milliken, Joseph H.	Med. 4	357 Broadway, Lachine, Que.	Lach. 481
Mills, Alan S.	Ap. Sci. 3	4073 Hampton Ave., Montreal	WA 7305
Millward, James B.	Arts 2	3841 Draper Ave., Montreal	WA 3874
Miner, M. Eleanor	Arts 1	5852 Esplanade Ave., Montreal	CR 3598
Miner, Sarah	Arts 1	Hennigars, Hants Co., N.S.	
Minnes, Harold, E.	Med. 5	108 Edison Ave., St. Lambert, Que.	St. Lam. 114
Minnes, James F.	Med. 2	545 Pine Ave. W., Montreal	MA 1545
Minnion, Arthur M.	Arts 3	3858 Howe St., Oakland, Cal.	
Mirsky, I. Arthur	Med. 5	4159 Old Orchard Ave., Montreal	WA 2636
Mischpeter, Meta E.	Soc. Workers 2	3500 Shuter St., Apt. 1, Montreal	MA 9917
Mitchell, Beverley E.	Com. 1	Apt. 40 Chateau Apts., Sherbrooke St. W., Montreal	UP 4373
Mitchell, David J.	Ap. Sci. 1	Granby, Que.	
Mitchell, Frank M.	Com. 3	Apt. 40, Chateau Apts., Sherbrooke St. W., Montreal	UP 4373
Mitchell, Norma L.	Arts 4	Granby, Que.	
Mitchell, Thelma M.	Arts 3	3605 University St., Montreal	MA 3101
Mitchell, Robert W.	Ap. Sci. 2	364 Lewis St., Ottawa, Ont.	
Mode, G. Stuart	Med. 1	1025 Sherbrooke St. W., Montreal	UP 4418
		364 Lewis St., Ottawa, Ont.	
		3025 Sherbrooke St. W., Montreal	FI 2909
		227 St. Joseph Blvd. W., Montreal	BE 9439
		1124 Dorchester St. W., Montreal	MA 7366
		3546 Lorne Ave., Montreal	
		207 Carling Ave., Ottawa, Ont.	
		48 Joyce Ave., Outremont, Que.	AT 0184
		East Templeton, Que.	
		596 Lansdowne Ave., Westmount, Que.	EL 2422
		6 Trafalgar Place, Montreal	WE 0174
		944 Dunlop Ave., Outremont, Que.	AT 4836
		135 Balfour Rd., Montreal	AT 5537W
		378 Prince Arthur St. W., Montreal	PL 1553
		Vankleek Hill, Ont.	

\*Left early in the session.



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709

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Moffat, Agnes K.	Med. 5.	570 Milton St., Apt. 3, Montreal	MA 9966
Mollot, Edward E.	Dent. 3.	32 Denison Rd. W., Weston, Ont.	
Monk, Helen V.	Grad. Sch.	4625 Wellington St., Verdun	YO 0983
Monks, Herbert T. J.	Arts 1.	5 Hawley St., White Plains, N.Y.	
Montgomery, Frances E.	Com. 1.	2641 Wellington St., Verdun, Que.	YO 1026
Montgomery, Frances L.	Soc. Workers 2.	779 Hartland Ave., Montreal	AT 1304
Montgomery, George H.	Arts 2.	158 Hallowell Ave., Westmount, Que.	WE 8476
Montgomery, Harriet Rose.	Grad. Sch.	Sawyerville, Que.	
Montgomery, Robert A.	Arch. 5.	3562 Mountain St., Montreal	UP 4409
Montgomery, Robert H.	Law 1.	5627 Hutchison St., Montreal	
Montgomery, Thomas R.	Com. 3.	3429 Peel St., Montreal	UP 5947
Montgomery, Wallace O.	Law 1.	Philipsburg, Que.	
Montgomery, William B.	Ap. Sci. 4.	4469 Montrose Ave., Westmount, Que.	WE 5160
Mooney, Malcolm C.	Arts 3.	New Richmond, Que.	
Moore, George A.	Ap. Sci. 2.	317 Broadway, Lachine, Que.	Lach. 288
Moore, Leonard Patrick.	Grad. Sch.	3559 University St., Montreal	MA 4418
Moran, Maude G. T.	Arts P.	East Angus, Que.	
Morazain, J. Gaston.	Grad. Sch.	3429 Peel St., Montreal	UP 5947
Morehouse, Fred R.	Grad. Sch.	Penticton, B.C.	
Morehouse, Oscar E.	Med. 3.	3647 University St., Montreal	MA 2806
Morgan, G. Lloyd.	Arts 3.	316 Grande Allée, Quebec	
Morisset, J. Fernand.	Ap. Sci. 2.	3618 Oxenden Ave., Montreal	MA 8505
Morrill, Elinor L.	Arts 2.	61 McGee Ave., Westboro, Ont.	
Morris, Lindsay G.	Com. 3.	Apt. 30, 2009 Mansfield St., Montreal	LA 3340
Morrison, Claude W.	Ap. Sci. 4.	4840 Western Ave., Westmount, Que.	WE 3883
Morrison, Gordon M.	Med. 3.	3420 University St., Montreal	MA 9181
Morrison, Janet S.	Arts 3.	94 St. Cyril St., Quebec, Que.	
Morrison, Norman D. Jr.	Med. 2.	2009 Mansfield St., Montreal	LA 3340
Morrison, Thomas Jack.	Grad. Sch.	3483 Peel St., Montreal	UP 3215
Morrow, Ives T.	Arts 3.	Upper Keswick, N.B.	
Morse, Thomas S.	Arts 1.	3506 University St., Montreal	MA 2055
Morse, Willis J.	Ap. Sci. 2.	Port de Grave, Nfld.	
Morton, Edward A.	Arts 4.	304 Sherbrooke St. W., Montreal	HA 5597
Morton, Nelson Whitman.	Grad. Sch.	Ville Marie, Co. Temiskaming, Que.	
Morton, R.	Grad. Sch.	Royal Victoria College, Montreal	MA 2810
Moseley, Shirley C. T.	Ap. Sci. 1.	25 Prospect St., Sherbrooke, Que.	
Moss, Margaret C.	Grad. Sch.	83 Columbia Ave., Westmount, Que.	WE 9071
Mott, Frederick D.	Med. 4.	148 Portland Ave., Montreal	AT 0111
Mowat, Evelyn L.	Arts P.	3578 University St., Montreal	MA 1074
Mowatt, Andrew J.	Arts 2.	San Mateo, Cal.	
Moxley, Catherine I.	Phy. Ed. 1.	875 McEachran Ave., Outremont, Que.	AT 2064
Moynan, Jeffrey S.	Ap. Sci. 1.	3578 University St., Montreal	MA 1074
Mullally, James E.	Law 1.	San Mateo, Cal.	
Mullen, Thomas J.	Ap. Sci. 1.	4719 Western Ave., Westmount, Que.	WE 9974
		3485 McTavish St., Montreal	MA 2720
		410 Roxton Rd., Toronto, Ont.	
		495 Prince Arthur St., Montreal	MA 4478
		Bathurst, N.B.	
		3420 Hutchison St., Montreal	LA 0442
		Grand Falls, Nfld.	
		3559 University St., Montreal	MA 4818
		St. Albans, Vt.	
		Apt. 72, 3515 Durocher St., Montreal	MA 6756
		4516 Esplanade Ave., Montreal	BE 2509M
		407 Prince Arthur St. W., Montreal	HA 2393
		Lunenburg, N.S.	
		2035 Guy St., Montreal	
		3647 Durocher St., Montreal	HA 1489
		75 Midland Ave., Montclair, N.J.	
		646 Carlton Ave., Westmount, Que.	WE 0681
		1622 St. Catherine St. W., Montreal	UP 3331
		Ile aux Cerfs, St. Hilaire Stn., Que.	
		3466 University St., Montreal	MA 2608
		657 Victoria Ave., Windsor, Ont.	
		281 West Hill Ave., Montreal	WA 3740
		Waterloo, Que.	
		2021 Union Ave., Montreal	MA 9560
		4336 Coolbrook Ave., Montreal	EL 5292



NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address

Munich, Adhernan G.	Law 1.	Mount Royal Hotel, Montreal.	UP 7771
Munro, Charles A.	Med. 5.	3442 Durocher St., Montreal.	MA 8838
Munro, Ferdinand L.	Grad. Sch.	Brockway, Pa.	
		2047 Mansfield St., Montreal.	LA 0509
Munroe, William G. C.	Med. 2.	2871-38th Ave. W., Vancouver, B.C.	
Munn, Daniel James.	Theol. 1.	235 Strathearn Ave., Montreal West.	WA 4792
		3506 University St., Montreal.	MA 2055
Murchison, Malcolm R.	Arts 2.	4273 Dorchester St. W., Montreal	
		3420 Hutchison St., Apt. 24, Mont-	
		real.	LA 1380
Murdock, Albert E.	Arts 3.	Belfast, P.E.I.	
		3506 University St., Montreal.	MA 2055
Murnen, Owen F.	Dent. 3.	R.R. No. 4, Osgoode, Ont.	
		3443 St. Famille St., Montreal.	PL 5096
Murphy, Edmund P.	Med. 1.	809 Morris St., Ogdensburg, N.Y.	
		1402 Fort St., Montreal.	WI 2791
		2652 Bloomington Ave., Minneapolis,	
		Minn.	
Murphy, Robert G.	Med. 3.	2019 Peel St., Montreal.	MA 2704
		17 Mayflower St., Providence, R.I.	
Murray, Chas. Cuthbert.	Theol. 2.	3506 University St., Montreal.	MA 2055
		Stony Creek, Ont.	
Murray, Frank T.	Arts 1.	1476 Closse St., Montreal.	WI 8771
		91 Beckett St., Portland, Me.	
Murray, George.	Theol. 3.	3485 McTavish St., Montreal.	MA 2720
		24 South Dell Ness, Stornoway, Scot-	
		land.	
Murray, John M.	Arts 1.	3434 McTavish St., Montreal.	UP 8633
		212 Wallace Ave., Buffalo, N.Y.	
Murray, Margaret E.	Arts 3.	51 Belvedere Rd., Westmount, Que.	WE 0911
Murray, Margaret G.	Grad. Nurse 1.	525 Prince Arthur St. W., Montreal.	MA 6649
		Doaktown, N.B.	
Murray, T. Ross.	Dent. 4.	370 Elm Ave., Westmount Que.	WE 6801
Murray, William M.	Ap. Sci. 3.	1509 Sherbrooke St. W., Montreal.	FI 3047
		Georgeville, Que.	
Musgrave, Edward L.	Com. 3.	2047 Metcalfe St., Montreal.	LA 9509
		1166 Goodwin St., Victoria, B.C.	
Myler, Bernard J.	Ap. Sci. 1.	2048 City Councillors St., Montreal.	LA 7968
		102 Brown Ave., Quebec.	
Naismith, Mildred L.	Com. 3.	1959 Bayle St., Montreal.	WI 9912
		195 Powell Ave., Ottawa, Ont.	
Neal, Edith C.	Arts 3.	4130 Beaconsfield Ave., Montreal.	WA 3235
Neamtan, Samuel M.	Arts 1.	4894 Hutchison St., Montreal.	DO 5427
Neamtan, Solomon.	Com. 4.	4894 Hutchison St., Montreal.	DO 5427
Neeland, William D.	Ap. Sci. 1.	3433 Peel St., Montreal.	MA 2740
		328 Catharine St., Fort William, Ont.	
Negru, John H.	Med. 1.	1527 Burnside Place, Montreal.	UP 1808W
Neil, James W.	Arts 2.	3486 Park Ave., Montreal.	HA 7481
		25 John St., Smith's Falls, Ont.	
Nelson, Lewis H.	Arts 2.	59 Selby St., Montreal.	WI 1757
		385 8th Ave., E., Vancouver, B.C.	
Nelson, Richard W.	Med. 1.	522 Prince Arthur St. W., Montreal.	HA 7347
		Kane, Pa.	
Nelson, Robert J.	Med. 4.	545 Pine Ave. W., Montreal.	MA 1545
		P.O. Box 462, Campbellton, N.B.	
Nesbitt, Arthur D.	Ap. Sci. 2.	41 Forden Ave., Westmount, Que.	WE 2162
Nesbitt, Dorothy E.	Arts 3.	4168 Madison Ave., Montreal.	WA 5136
Newell, Howard W.	Med. 4.	3419 University St., Montreal.	MA 3089
		Dee Road, Lexington, Mass.	
Newman, Laura L.	Arts 4.	5422 5th Ave., Rosemount, Que.	CH 6657
Newnham, Alice E.	Soc. Workers 2.	2365 Grand Trunk St., Montreal.	WI 6202
		St. Stephen, N.B.	
Newton, Reginald S.	Ap. Sci. 1.	3581 University St., Montreal.	MA 3842
		165 Portland Ave., Sherbrooke, Que.	
Nicholas, Robert A.	Com. 2.	2053 Decarie Blvd., Apt. 2, Montreal.	WA 9006W
Nicholls, George Van V.	Law 2.	2174 Sherbrooke St. W., Montreal.	WI 9237
Nicholls, John Van V.	Med. 2.	2174 Sherbrooke St. W., Montreal.	WI 9237
Nicholls, Robert Van V.	Arts 2.	2174 Sherbrooke St. W., Montreal.	WI 9237
Nicholson, Gwendolyn M.	Arts 1.	23 Donegan Ave., Valois, Que.	Pt. Claire



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711

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
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Where two addresses are given, the second is the home address

Nickerson, Samuel H.	Med. 3	4414 Henri Julien Ave., Montreal	BE 3711F
Nickson, John E.	Com. 2	D42 Gleneagles, Cote des Neiges Rd., Montreal	UP 2172
Nicolle, Alice G.	Grad. Nurse 1	Woman's General Hospital, Montreal	WE 9000
Nicolson, Walter W.	Med. 2	Inglewood, Dorset, England	
		3578 University St., Montreal	MA 1074
Nixon, Dorothy J.	Arts 2	1201 Park Ave., Alameda, Cal.	
Nixon, John S.	Arts 3	647 Belmont Ave., Westmount, Que.	WE 4808
Noad, Harriet L.	Phy. Ed. 1	647 Belmont Ave., Westmount, Que.	WE 4808
		Y.W.C.A., St. Famille St., Montreal	PL 6807
Nobbs, Francis J.	Arts 2	Smith's Falls, Ont.	
Nobbs, Phoebe E.	Arts P.	38 Belvedere Rd., Westmount, Que.	WE 4612
Nolan, Clinton W.	Ap. Sci. 3	38 Belvedere Rd., Westmount, Que.	WE 4612
		2097 St. Luke St., Apt. 5, Montreal	WI 2661
Nolan, John A.	Arts 1	777 Potomac Ave., Buffalo, N.Y.	
Nolan, John F.	Med. 4	836 Davaar Ave., Montreal	AT 2222
		640 Prince Arthur St. W., Montreal	MA 9531
Normington, James B.	Arts 4	505 Brooks St., Bridgeport, Conn.	
Norris, Frederick E.	Com. 2	39 Windsor Ave., Westmount, Que.	WE 6615
		3429 Peel St., Montreal	UP 5947
Norris, Jessie M.	Arts P.	132 Douglas St., Victoria, B.C.	
		Apt. 6, 6004 Sherbrooke St. W., Montreal	WA 0473W
Norris, John L.	Med. 5	Granby, Que.	
		1254 St. Mark St., Montreal	WI 5522
Norris, Kenneth E.	Grad. Sch.	5 Washburn Ave., Needham, Mass.	
Norwood, Clarence R.	Ap. Sci. 1	4974 Earncliffe Ave., Montreal	EL 5952
Norwood, W. Daggett	Med. 2	15 Rennie Ave., Montreal	WA 1316
		3547 University St., Montreal	MA 6915
Novek, Ruth	Arts 1	101 Forest Drive, Catonsville, Md.	
Nowlan, Shirley M.	Arts 2	3837 Girouard Ave., Montreal	EL 4791
Nugent, William O.	Arts P.	5510 Queen Mary Rd., Montreal	EL 5104
		Presbyterian College, Montreal	MA 2720
Nutik, Harry L.	Com. 3	56 Forward Ave., London, Ont.	
		4908 Sherbrooke St. W., Westmount, Que.	WE 6945
Nutik, Oscar	Med. 5	4908 Sherbrooke St. W., Westmount, Que.	WE 6945
Nutt, Philip K.	Com. 2	83 Lorne Ave., St. Lambert, Que.	St. Lam. 237
Oatman, Homer C. Jr.	Med. 5	366 Sherbrooke St. W., Montreal	MA 7809
O'Connell, Francis Joseph	Grad. Sch.	2437 2nd St., San Diego, Cal.	
O'Connor, Alice J.	Arts 2	2545 St. Charles St., Montreal	WI 6973
		1539 Bishop St., Montreal	UP 2679
		164 Woodward Ave., Sault Ste. Marie, Ont.	
O'Connor, Alma	Arts 3	1539 Bishop St., Montreal	UP 2679
		164 Woodward Ave., Sault Ste. Marie, Ont.	
O'Dowd, Cyril G.	Ap. Sci. 2	327 De L'Epée Ave., Outremont, Que.	AT 2335
Ogilvie, Douglas R.	Arts 4	20 St. Sulpice Rd., Montreal	FI 4113
Ogilvie, Gordon S.	Ap. Sci. 1	Presbyterian College, Montreal	MA 2720
		55 Park Ave., Ottawa, Ont.	
Ogilvie, Ian	Arts 2	3529 Simpson St., Montreal	UP 0655
Ogilvie, Lorne F. W.	Com. 1	20 St. Sulpice Rd., Montreal	FI 4113
Ogulnik, F. Victor	Arts 3	5 Belfrage Rd., Westmount, Que.	EL 4503
O'Hara, Gerald P.	Med. 2	3534 University St., Montreal	MA 3448
		215 7th Ave., Apt. 1, San Francisco, Cal.	
Olesker, Carmen H.	Arts 2	1484 Sherbrooke St. W., Montreal	FI 0723
Olesker, Norman H.	Arts 2	1484 Sherbrooke St. W., Montreal	FI 0723
Oleskevich, Veni	Ap. Sci. 3	2056 Jeanne Mance St., Montreal	HA 9683
		Chatham, N.B.	
Oliver, Abraham	Dent. 3	3816 De Bullion St., Montreal	PL 3312
Oliver, Austen W.	Dent. 4	1438 Closse St., Montreal	WI 4442
		415 10th St., Saskatoon, Sask.	
Oliver, Robert W.	Com. 1	70 35th Ave., Lachine, Que.	Lach. 1241J
Olmes, Frank S.	Med. 3	539 Pine Ave., Montreal	MA 7818
		2712 Broad Ave., Altoona, Pa.	
Olmstead, Shirley H.	Med. 5	2019 Peel St., Montreal	MA 2704
		210 Main St., Lancaster, N.H.	



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
O'Meara, Ambrose J.	Law 1.	Chateau Apts., Apt. E71, Sherbrooke St. W., Montreal.	UP 7349
Onions, Wilfred R.	Arch. 4.	1176 Sherbrooke St., Montreal.	MA 1447
O'Reilly, Edwin B.	Med. 1.	Somerset, Bermuda 3550 Lorne Ave., Montreal.	MA 2693
O'Reilly, Harold L.	Med. 1.	427 Fruit Hill Ave., No. Providence, R.I. 3550 Lorne Ave., Montreal.	MA 2693
O'Reilly-Hewitt F. T.	Com. 2.	427 Fruit Hill Ave., No. Providence, R.I. 1176 Sherbrooke St., Montreal.	MA 1447
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713

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717

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719

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Short, Mary G. G.	Arts 4.	96 St. Louis St., Lachine, Que.	Lach. 2865
Shortall, John D.	Ap. Sci. 1.	457 Rosedale Ave., Montreal	WA 1661
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Silverman, Edward	Dent. 1.	85 Pagnuelo Ave., Outremont, Que.	AT 6950M
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Simon, Helen	Arts 1.	40 Elmwood Ave., Outremont, Que.	AT 4671
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Simpson, H. L.	Arts P.	754 Sherbrooke St., Montreal.	LA 2697
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Slapack, Max	Law 2.	6020 Esplanade Ave., Montreal.	CR 2917
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Smaill, Donald W.	Arts 4, Med. 1.	3525 Durocher St., Apt. 75, Mont- real.	LA 0636
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Sutherland Hugh S.	Grad. Sch.	2007 Mansfield St., Montreal.	LA 3340
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		Pictou, N.S.	
Sutherland, Roderick W.	Arts 3.	2054 Sherbrooke St. W., Apt. 9, Montreal.	WI 8621
Sutton, Gerald L.	Arts 4, Med. 1.	10434 Delorimier Ave., Montreal.	DU 3226
Swabey, Allan	Grad. Sch.	2174 Old Orchard Ave., Montreal.	WA 4377M
Swartz, Joe	Ap. Sci. 1.	4837 Hutchison St., Apt. 3, Montreal.	DO 6770
		1401 Ford St., Fort William, Ont.	
Swift, Lionel	Ap. Sci. 1.	3648 Park Ave., Montreal.	HA 0857
		101 Cascade Ave., Shawinigan Falls, Que.	
Taft, Albert H.	Med. 4.	3490 Shuter St., Montreal.	MA 1734
		Winchester, N.H.	



# DIRECTORY OF STUDENTS

723

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Taggart, Mary M.	Arts 3.	2320 Comte St., Apt. 8, Montreal.	WI 5872
Tait, Alexander H.	Ap. Sci. 1.	211 Clemow Ave., Ottawa, Ont.	
Tait, Elizabeth J.	Arts 1.	632 Grosvenor Ave., Westmount, Que.	EL 3284
Tait, Helga.	Arts 4.	632 Grosvenor Ave., Westmount, Que.	EL 3284
Tait, Ragnhild.	Arts 1.	467 Lansdowne Ave., Westmount, Que.	WE 1888W
Tait, William M.	Arts 1.	467 Lansdowne Ave., Westmount, Que.	WE 1888W
Talbot, Allan D.	Arts 2.	2276 Regent Ave., Montreal.	WA 7428
Talbot, Ernest J.	Arts 4.	92 Lorne Ave., St. Lambert, Que.	St. Lam. 181
Talbot, William E.	Med. 5.	1225 St. Mark St., Montreal.	WI 4724
Talpis, Clarence.	Law 3.	Valleyfield, Que.	
Talpis, Harry J.	Com. 3.	1441 Drummond St., Montreal.	MA 8331
Tamarin, Esther.	Arts 4.	Hamilton, Bermuda.	
Tannenbaum, Joseph.	Ap. Sci. 1.	50 Arlington Ave., Westmount, Que.	WE 7599
Tanner, Lorraine L.	Law 1.	50 Arlington Ave., Westmount, Que.	WE 7599
Tansey, John G.	Com. 3.	1214 Lajoie Ave., Outremont, Que.	AT 4616M
Tapp, James Stewart.	Grad. Sch.	5344 Jeanne Mance St., Montreal.	CR 0197
Taprell, Jane E.	Arts 4.	1455 Drummond St., Montreal.	MA 1876
Tarbox, Byron R.	Med. 4.	3236 Westmount Blvd., Westmount, Que.	WE 2800
Tarlov, Isadore Max.	Grad. Sch.	3555 University St., Montreal.	MA 7918
Tarr, Hugh L. A.	Grad. Sch.	Hensall, Ont.	
Taub, Elsie.	Arts 4.	1492 Bishop St., Montreal.	UP 4827
Taylor, Cyril M.	Arch. 3.	823 Royal Ave. W., Calgary, Alta.	
Taylor, Fred. Wm.	Theol. 3.	640 Prince Arthur St. W., Montreal.	LA 6809
Taylor, George E. S.	Com. 4.	619 N. Center Ave., Miles City, Mont.	
Taylor, Jack S.	Com. 4.	Royal Victoria Hospital.	PL 1251
Taylor, Jean P.	Arts 3.	772 Sherbrooke St. W., Montreal.	LA 1567
Taylor, Kathryn R.	Phy. Ed. 2.	240 10th St. E., Vancouver, B.C.	
Taylor, Muriel M.	Arts P.	5358 Brodeur Ave., Montreal.	HA 4883
Tedford, Edmund H.	Ap. Sci. 2.	3506 University St., Montreal.	MA 2055
Tees, Herbert H.	Arts 2.	248 King St. E., Brockville, Ont.	
Tees, Ralph C.	Com. 2.	3506 University Street, Montreal.	MA 2055
Teet, Jack A.	Arts 1.	7 Delaware Street, Belfast, Ireland.	
Temple, Jocelyn B.	Arts 2.	3530 Durocher St. Montreal.	MA 4001
Temple, May V.	Arts 3.	175 Athabasca St. W., Moose Jaw, Sask.	
Templeton, Margaret C.	Arts 1.	3429 Peel St., Montreal.	UP 5947
Tessier, Leo J.	Med. 5.	910 McMillan Ave., Winnipeg, Man.	
Tessier, Norman V.	Arts 2.	599 Roslyn Ave., Westmount, Que.	EL 4167
Thibodeau, Joseph E. M. J.	Arch. 4.	4242 Beaconsfield Ave., Montreal.	WA 2958
Thom, Alexander T.	Med. 3.	31 Barat Rd., Westmount, Que.	WE 2618
Thomas, Belmont E.	Med. 1.	512 Victoria Ave., Westmount, Que.	WE 8100
Thomas, George H.	Ap. Sci. 1.	4128 Harvard Ave., Montreal.	WA 1581
Thomas, Henry S. Jr.	Med. 1.	1164 Lajoie Ave., Outremont, Que.	AT 5344
Thomas, William.	Arts 3.	652 Charlevoix St., Montreal.	
Thomas, Wm. Frank.	Grad. Sch.	2 Redpath Row, Montreal.	FI 2841
		Royal Victoria College, Montreal.	MA 2810
		23 Craigmillar Ave., St. John's, Nfld.	
		758 Sherbrooke St. W., Montreal.	LA 8380
		Albert Head, Victoria, B.C.	
		2017 Gifford St., Montreal.	AM 5578
		927 Atwells Ave., Providence, R.I.	
		2043 Jeanne Mance St., Montreal.	HA 2323
		5574 Park Ave., Montreal.	CR 0349
		3478 McTavish St., Montreal.	UP 2143
		150 Balmoral Ave., Apt. 205, Toronto, Ont.	
		650 Sherbrooke St. W., Apt. 5, Montreal.	LA 5661
		201 W. Morris St., Bath, N.Y.	
		570 Claremont Ave., Westmount, Que.	WE 8093
		39 Brighton Ave., Ottawa, Ont.	
		4033 Vendome Ave., Montreal.	WA 8892
		349 Yost Ave., Spring City, Pa.	
		2303 Hampton Ave., Montreal.	WA 1805W
		5910 Hutchison Street, Outremont, Que.	CR 2958



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address.			
Thompson, Ernest D.	Med. 4.	2059 Peel St., Montreal.	LA 0704
		68 Pocasset Ave., Providence, R.I.	
Thompson, Helen L.	Arts 4.	492 Grosvenor Ave., Westmount, Que.	WE 2147
Thompson, Helen M. M.	Arts 1.	4481 Montrose Ave., Westmount, Que.	WE 5000
Thompson, Lois A.	Arts 2.	3436 Durocher St., Apt. 4a, Montreal.	MA 9011
		St. Andrews, N.B.	
Thompson, Robert.	Arts 1.	157 17th Ave., Lachine, Que.	Lach. 203M
Thompson, Robt. R.	Grad. Sch.	Macdonald College, Que.	St. Annes 166
Thompson, Winifred.	Arts 4.	157 17th Ave., Lachine, Que.	Lach. 203M
Thomson, Elihu.	Ap. Sci. 4.	695 Grosvenor Ave., Westmount, Que.	EL 4808
Thornton, Robert L.	Grad. Sch.	Rosemere, Que.	St. Therese 608 r.12
Thurston, Erwin C.	Arts 1.	3647 Durocher Ave., Apt. 12, Montreal.	HA 4380
Ticoll, Louis.	Arts 1.	4345 Clarke St., Montreal.	BE 9003
Tinkler, Howard H.	Ap. Sci. 2.	3474 De Bullion St., Montreal.	LA 5538
Tinkler, Lilian E.	Arts P.	3456 Aylwin St., Montreal.	CL 8376
Tinkoff, Lazarus L.	Law 3.	661 Querbes Ave., Apt. 3, Montreal.	AT 7408
Titleman, Morton S.	Ap. Sci. 3.	4387 St. Urbain St., Montreal.	BE 7373W
Tobin, John Cyril.	Grad. Sch.	1034 Sherbrooke St. W., Montreal.	PL 0949
		Box 557.	
Toby, Charlotte G.	Arts 2.	3429 St. Famille St., Montreal.	PL 6807
Tooke, Gretchen M.	Arts 2.	4 Hudson Ave., Westmount, Que.	WE 2994
Tortolani, Aresto P.	Med. 2.	2019 Peel St., Montreal.	MA 2704
		14 Parade St., Providence, R.I.	
Tough, David L.	Arts 4.	772 Sherbrooke St., Montreal.	LA 1567
		Paris, Ont.	
Towle, Harold M.	Arts 1.	302 Cote de Liesse Rd., Montreal.	AT 2563
Townsend, Isabel M.	Arts 3.	95 McCulloch Ave., Montreal.	AT 5724
Townsend, Milton G.	Arts 4, Med. 1.	95 McCulloch Ave., Montreal.	AT 5724
Townsend, Stuart R.	Med. 3.	230 Beaconsfield Ave., Montreal.	WA 7809
Trager, Angela M.	Lib. Sch.	3550 Lorne Ave., Montreal.	MA 2693
		638 Woodland Park, Chicago, Ill.	
Trimingham, Hugh L.	Arts 3.	1829 Tupper St., Montreal.	FI 1708
Tripp, Netannis, E.	Soc. Workers 1.	365 Clarke Ave., Westmount, Que.	WE 7427
Trister, Saul M.	Grad. Sch.	4393 St. Urbain St., Montreal.	BE 1843M
Tritt, Anna L.	Arts 3.	531 Davaar Ave., Outremont, Que.	AT 3759W
Trotter, Wallace S.	Com. 4.	1469 Drummond St., Apt. 91, Montreal.	MA 1528
Trow, Elizabeth L.	Arts P.	645 Belmont Ave., Westmount, Que.	WE 2241
Tucker, Alfred R.	Com. 3.	772 Sherbrooke St. W., Montreal.	LA 1567
		201 Dromore Ave., Winnipeg, Man.	
Tucker, Warren W.	Med. 2.	7 Park Place, Westmount, Que.	WE 6031W
Turcot, Conrad.	Grad. Sch.	4849 Garnier St., Montreal.	CH 3268
Turgeon, John R.	Law 1.	4135 St. Denis St., Montreal.	BE 7607
Turner, Cecil H.	Med. 4.	631 Prince Arthur St., W., Apt. 5, Montreal.	LA 2351
		Meductic, York Co., N.B.	
Turner, Donald C.	Arts 3.	424 Wood Ave., Westmount, Que.	WE 1787
Turner, George E.	Med. 3.	539 Pine Ave. W., Montreal.	MA 7818
		1653 Victoria Ave., Windsor, Ont.	
Turner, Harold Alfred.	Theol. 1.	2054 Metcalfe St., Apt. 7, Montreal.	LA 5434
Turner, J. Gilbert.	Med. 4.	545 Pine Ave. W., Montreal.	MA 1545
		176 Charlotte St., Fredericton, N.B.	
Turner, Rowena.	Music.	2119 Prud'homme Ave., Montreal.	WA 9029
Tutill, George W. D.	Med. 4.	1230 Crescent St., Apt. 17, Montreal.	UP 6447J
		Merritt, B.C.	
Tuttle, Harry Gilbert.	Grad. Sch.	3506 University St., Montreal.	MA 2055
		Shearstown, Newfoundland	
Twitchell, Vernon B.	Arts 4.	2039 McGill College Ave., Montreal.	LA 0361
		6 Winter St., Tilton, N.H.	
Tynan, Helen G.	Arts P.	1469 Drummond St., Montreal.	MA 1771
Ulrichsen, Barbara A.	Arts 4.	165 Cote des Neiges Rd., Montreal.	UP 6235
		452 Pomeroy Ave., Pittsfield, Mass.	
Urquhart, Fred S.	Law 1.	5205 Durocher Ave., Outremont, Que.	CR 6518
*Vaintrub, Samuel C.	Com. 3.	4233 Esplanade Ave., Montreal.	BE 8726
Valkenburg, Feitse.	Arts 1.	United Theological College, Montreal.	MA 2055
		Brederolaan 10, Amersfoort, Holland	
Van Vliet, Jonathan E.	Dent. 1.	772 Sherbrooke St. W., Montreal.	LA 1567
		Dewittville, Que.	

\*Left early in the session.



# DIRECTORY OF STUDENTS

725

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address

Van Wyck, Norman	Med. 1	621 Belmont Ave., Westmount, Que.	WE 2808
Varey, Edith R.	Arts 1	3833 Melrose Ave., Montreal	WA 2873
Vassell, Raymond C.	Dent. 2	3459 Park Ave., Montreal	PL 2539
		2517 Ditmars Ave., Astoria, N.Y.	
Vatcher, Samuel	Arts P.	3506 University St., Montreal	MA 2055
		Battery Rd., St. John's Nfld.	
Veitch, William J.	Com. 4	3434 McTavish St., Montreal	UP 8633
		445 Strathcona Ave., Westmount, Que.	
Verschoyle, Patrick D.	Ap. Sci. 1	3565 Jeanne Mance St., Apt. 7, Montreal	LA 5938
		Fynning Manor Farm, Rogate, Peterfield, Hants, Eng.	
Vezina, Frank A.	Arts 2	1441 Drummond St., Montreal	MA 8331
Viberg, Henry M.	Arts 1	183 Bedbrooke Ave., Montreal West	WA 1533W
Vickerson, Herbert F.	Arts 1	2305 Regent Ave., Montreal	WA 3961
Victor, William	Com. 4	3863 St. Lawrence Blvd., Montreal	PL 1591
Viger, Roland J.	Med. 3	640 Prince Arthur St. W., Montreal	MA 9531
		16 Dartmouth St., Lawrence, Mass.	
Villiaume, L. Edward	Med. 3	640 Prince Arthur St. W., Montreal	MA 9531
		508 South Park Ave., Buffalo, N.Y.	
Vincent, Paul E. A.	Ap. Sci. 2	6899 St. Denis St., Montreal	CA 7352
Vineberg, Arthur Martin	Grad. Sch.	4330 Westmount Ave., Westmount, Que.	
Violette, Roger N.	Med. 4	4040 Ontario St., Montreal	CL 6177W
Vipond, Alva M.	Arts 2	4138 Dorchester St., Westmount, Que.	WE 1532
Vipond, William C.	Ap. Sci. 2	664 Wiseman Ave., Outremont, Que.	AT 3240
Vissenger, Lillian	Arts 1	6605 Christophe Colomb St., Montreal	CA 3509
		4076 Lafontaine Park, Montreal	FR 9541
Vogin, Maurice A.	Ap. Sci. 3	3485 McTavish St., Montreal	MA 2720
Von Haeseler, Paul	Med. 5	86 Haven Ave., New York City	
Vosberg, Clarence	Dent. 3	469 Lansdowne Ave., Westmount, Que.	WE 0302
Wade, Arthur B.	Med. 4	3506 University St., Montreal	MA 2055
		Renfrew, Ont.	
Wade, Margret M.	Soc. Workers 2	3741 Hutchison St., Apt. 4, Montreal	HA 3512
		36 Queenston St., Winnipeg, Man.	
Wagner, Robert L.	Med. 1	3532 Lorne Ave., Montreal	MA 5992
		1200 Fulton St., San Francisco, Cal.	
Wahl, Albert L.	Med. 1	1402 Fort St., Montreal	WI 2791
		3100 Pioneer Ave., Pittsburg, Pa.	
Wain, Ethel L.	Arts P.	619 Oak Ave., St. Lambert, Que.	St. Lam. 496J
Wainer, Louis	Med. 3	4531 Esplanade Ave., Montreal	BE 6344
Wait, Arthur H.	Com. 2	3609 University St., Montreal	MA 4300
		2 Fourth Ave., Ottawa, Ont.	
Waite, George S.	Arts 1	1434 Sherbrooke St. W., Montreal	UP 5639
		Staunton, 6th Ave., Belleville, Barbados, B.W.I.	
Wake, Frank R.	Arts 1	United Theological College, Montreal	MA 2055
		Arvida, Que.	
Wakefield, William	Med. 1	375 Prince Arthur St. W., Montreal	HA 1941
		2328 W. First Ave., Spokane, Wash.	
Walbridge, Frances M.	Arts 2	43 Burton Ave., Westmount, Que.	WE 1864
Walbridge, Harriet E.	Arts 1	43 Burton Ave., Westmount, Que.	WE 1864
Wales, Margaret E.	Grad. Nurse 1	2014 Victoria St., Montreal	LA 7686
		St. Andrews East, Quebec	
Walker, J. A. Leo	Med. 5	3457 Shuter St., Montreal	MA 7669
		130 Askin Blvd., Sandwich, Ont.	
Walker, Mildred C.	Lib. Sch.	3723 Jeanne Mance St., Montreal	HA 2301
		Grand Bend via Parkhill, Ont.	
Wallace, John S.	Ap. Sci. 1	40 Aberdeen Ave., Westmount, Que.	WE 7607
Wallace, Reginald E. B.	Ap. Sci. 2	3549 Jeanne Mance St., Montreal	MA 2941
		Box 136, Granby, Que.	
Waller, Clara	Soc. Workers 2	59 Sanford Ave., St. Lambert, Que.	St. Lam. 751
Wallis, A.	Theol. 3	3473 University St., Montreal	MA 4902
		33 S. Accommodation Rd., Hunslet, Leeds, Eng.	
Walsh, Allison A. M.	Arts 2	3528 Lorne Ave., Montreal	MA 6400



NAME

FACULTY AND YEAR

ADDRESS

TEL. NO.

Where two addresses are given, the second is the home address

Walsh, Edward F.	Dent. 1	1441 Crescent St., Montreal	UP 0715
Walsh, James E. Jr.	Law 1	67 Crescent St., Waterbury, Conn. 216 St. Catherine Rd., Outremont, Que.	AT 0999
Ward, Daisy P.	Phy. Ed. 1	29a 16th Ave., Lachine, Que.	Lach. 598F
Ward, Dorothy	Music	112 Arlington Ave., Westmount, Que.	WE 4060
Ward, Elmer R.	Dent. 1	5458 Durocher Ave., Montreal	AT 1846
Ward, Sallie E.	Arts 1	112 Arlington Ave., Westmount, Que.	WE 4060
Wardleworth, Eleanor S.	Grad. Sch.	168 Cote St. Antoine Rd., Westmount	WE 2018
Warhaft, A. M.	Com. 3	82 Duluth Ave. W., Montreal	BE 3670J
Warner, Elizabeth N.	Med. 4	270 Cote des Neiges Rd., Montreal	UP 6313
Warner, Harry M.	Arts 3	120 Abbott Ave., Westmount, Que. Mille Roches, Ont.	WE 4611
Warnock, Robert N.	Ap. Sci. 4	344 Metcalfe Ave., Westmount, Que.	WE 2104
Warren, H. Kathleen	Arts 3	1530 Bernard Ave., Outremont, Que.	AT 4525
Watson, Samuel R.	Med. 2	2010 Mansfield Ave., Montreal St. John, N.B.	LA 9384
Wass, Marjorie B.	Arts 3	3015 Sherbrooke St. W., Apt. 6, Montreal	FI 4102
Waters, E. H.	Theol. 3	3473 University St., Montreal	MA 4902
Watier, Arthur H.	Ap. Sci. 3	4169 Dorchester St. W., Montreal	FI 9311
Watson, John B.	Arts 4	3506 University St., Montreal	MA 2055
Watson, Reginald E. L.	Med. 2	27 Monkstown Rd., St. Johns, Nfld. 3609 University St., Montreal	MA 4300
Watson, Thomas J.	Arts 3	Windsor Mills, Que. 3485 McTavish St., Montreal	MA 2720
Watson, Wilbur E.	Med. 1	47 Mansion House, Camelon, Falkirk, Scotland. 3457 Shuter St., Montreal	MA 7669
Watt, Alastair M.	Law 1	Montesano, Wash. 161 Laurier Ave. E., Montreal	BE 4723F
Watts, Helen	Music	Apt. 9, 2060 Sherbrooke St. W., Montreal	WI 5511
Waud, Jack	Music	218 Mercille Ave., St. Lambert, Que.	St. Lam. 149
Way, Bessie B.	Arts 2	Royal Victoria College, Montreal	MA 2810
Wayland, Charles H.	Arts 2	Allandale, Ont. 3463 Prud'homme Ave., Montreal	WA 6680
Webb, Dwight	Arts 3	3506 University St., Montreal	MA 2055
Webb, John D.	Com. 1	Cardinal, Ont. 42 Curzon St., Montreal West	WA 3153
Weber, Walter M.	Med. 1	510 Pine Ave. W., Montreal	HA 2970
Webster, Donald R.	Grad. Sch.	Pebble Beach, Cal. Dept. of Physiology, McGill University, Montreal	UP 3196
Webster, Edward C.	Arts 4	Pictou, N.S. 1126 Sherbrooke St., Apt. 5, Montreal. 10803 93rd St., Edmonton, Alta.	
Webster, L. Stuart	Law 1	7 Edgehill Rd., Westmount, Que.	WE 4110
Webster, Reginald H.	Arts 4	7 Edgehill Rd., Westmount, Que.	WE 4110
Webster, Richard C.	Com. 3	7 Edgehill Rd., Westmount, Que.	WE 4110
Weeks, Beatrice B.	Phy. Ed. 1	3466 University St., Montreal	MA 2608
Weidman, William H.	Med. 5	4466 Hadden Ave., Vancouver, B.C. 1316 Dorchester St. W., Montreal	MA 7659
Weiner, Florence	Arts 4	245 Cattell Ave. W., Collingwood, N.J. 3831 Old Orchard Ave., Montreal	EL 5969
Weiner, Hyman	Med. 2	4548 Esplanade Ave., Montreal	BE 9123
Weiner, Sydney	Law 2	3831 Old Orchard Ave., Montreal	EL 5969
Weinfeld, Mortimer	Arts 2	440 Elm Ave., Westmount, Que.	WE 5384
Weinstein, Anna Phyllis	Grad. Sch.	5385 Durocher Ave., Outremont, Que.	CR 0996
Weinstein, Oscar	Com. 4	5385 Durocher Ave., Outremont, Que.	CR 0996
Weintraub, David	Med. 5	1484 Sherbrooke St. W., Montreal	WI 9827
Weiss, Carl A.	Med. 4	2 Orr Square, Revere, Mass. 3419 University St., Montreal	MA 3089
Weiss, Herbert S.	Med. 4	130 East St., Lawrence, Mass. 1484 Sherbrooke St. W., Montreal	WI 9827
Weissenburger, Pierre C.	Com. 3	748 Kelly St., New York City 3433 Peel St., Montreal	MA 2740
		Clos Ste. Odile, Obernai, Bas-Rhin, France.	



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727

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Welch, Doris M.	Arts 1.	492 Victoria Ave., St. Lambert, Que.	St. Lam. 659W
Weldon, Arthur M.	Arts 1.	355 Olivier Ave., Westmount, Que.	WE 2570
Wells, Florence E.	Phy. Ed. 1.	3466 University St., Montreal.	MA 2608
Wells, Franklin B.	Grad. Sch.	Mississauga Rd., Port Credit, Ont.	
Wendling, Andre V.	Arts P.	3431 Jeanne Mance St., Montreal.	
Wener, Joseph L.	Phar. 2.	4079 Papineau Ave., Montreal.	
Wener, Seymour	Com. 4.	425 Edward Charles St., Montreal.	DO 4317
Werry, Wilfrid W.	Arts 4.	3479 Oxford Ave., Montreal.	WA 4357
Wexler, Boruk	Ap. Sci. 1.	4606 Colbrooke Ave., Montreal.	EL 4057
Wexler, Lillian E.	Arts 4.	3631 De Bullion St., Montreal.	LA 0328
Wheeler, Clifford V.	Arts 3.	4324 Sherbrooke St. W., Apt. 40, Westmount, Que.	WE 1219
Whitcomb, Benjamin B.	Med. 1.	4018 Vendome Ave., Montreal.	WA 6126
White, Arthur R. V.	Med. 4.	3455 Hutchison St., Montreal.	PL 1712
White, Edwin J.	Arts 3.	Main St., Illsworth, Me.	
White, F. Jean	Arts 3.	1500 Crescent St., Montreal.	UP 3999
White, Gordon T.	Com. 1.	160 Claremont Ave., Norwood, Man.	
Whitehead, Walter E.	Grad. Sch.	3485 McTavish St., Montreal.	MA 2720
Whitehouse, Ralph J.	Ap. Sci. 2.	319 Fitzroy St., Charlottetown, P.E.I.	
Whitley, Mary C.	Phy. Ed. 1.	312 Brock Ave. N., Montreal West.	WA 0851
Wickham, Patricia	Arts P.	3417 University St., Montreal.	MA 2812
Wigdor, Edward I.	Arts 1.	301 Stewart St., Ottawa, Ont.	
Wigdor, Myer	Com. 2.	Macdonald College, Que.	St. Anne 87
Wiggers, Herbert A.	Med. 2.	Strathcona Hall, Montreal.	LA 1567
Wiggins, Forrest W.	Arts 1.	175 Battle Street, Kamloops, B.C.	
Wight, Isobel	Arts P.	3466 University St., Montreal.	MA 2608
Wight, Murray E.	Arts 2.	181 Oxford St., Winnipeg, Man.	
Wilanski, Ruth	Arts 2.	414 Wiseman Ave., Montreal.	AT 0886
Wilband, Donald B.	Arts 1.	510 Wiseman Ave., Montreal.	AT 2580
Wilkey, John R.	Med. 5.	6121 Hutchison St., Montreal.	AT 1298J
Wilkinson, Arthur	Ap. Sci. 2.	640 Prince Arthur St., Montreal.	LA 6809
Wilkinson, F. Arthur H.	Med. 3.	183 Madison Ave., Flushing, N.Y.	
Wilkinson, Arthur	Ap. Sci. 2.	308 Ballantyne Ave., N., Montreal West.	WA 5190
Wilkinson, George	Grad. Sch.	359 Victoria Ave., Westmount, Que.	WE 4195
Williams, Alan Richard	Grad. Sch.	Woodlands, Que.	
Williams, Charles	Med. 5.	5204 Cote St. Antoine Rd., Montreal.	WA 5781
Williams, Elsbeth M.	Arts 1.	3609 University St., Montreal.	MA 4300
Williams, Ignatius K.	Med. 5.	Wiscasset, Me.	
Williams, Isabel A.	Music.	640 Prince Arthur St., W. Montreal.	MA 9531
Williams, Moses	Theol. 2.	186 Elmwood Ave., London, Ont.	
Williams, Katharine R.	Arts 1.	739a Champagne Ave., Outremont, Que.	AT 4115
Williams, Richard L.	Ap. Sci. 4.	5244 Musset Ave., Montreal.	EL 3518
Williamson, John T.	Grad. Sch.	739a Champagne Ave., Montreal.	AT 4115
Willis, Selwyn T.	Arts 2.	3506 University St., Montreal.	MA 2055
Willis, S. W.	Grad. Sch.	Room 44 Strathcona Hall, Montreal.	LA 1567
Wills, Nicholas J.	Arts 3.	118 Division St., Oshawa, Ont.	
Wilson, Charles V.	Grad. Sch.	1914 Notre Dame St., Montreal.	WI 0130
Wilson, George E.	Arch. 2.	Port Huron, Mich.	
Wilson, Harry E.	Com. 1.	2207 Van Horne Ave., Apt. 6, Montreal.	AT 0484
Wilson, Marion H.	Arts 2.	2207 Van Horne Ave., Apt. 6, Montreal.	AT 0484
		Caughnawaga, Que.	Lach. 45-r2
		Bay Bull's Arm, Nfld.	
		Royal Victoria College, Montreal.	MA 2810
		Box 794, New Glasgow, N.S.	
		159 24th Ave., Lachine, Que.	Lach. 760F
		445 Cote des Neiges Rd., Montreal.	WE 6521
		382 Olivier Ave., Westmount, Que.	FI 1954
		Strathcona Hall, Montreal.	LA 1567
		Aylesbury, Sask.	
		3573 Park Ave., Montreal.	PL 1901
		596 Bronson Ave., Ottawa, Ont.	
		83 Milton St., Montreal.	
		4210 Wilson Ave., Montreal.	WA 1282
		4425 St. Catherine St. W., Westmount, Que.	WE 1804
		612 Victoria Ave., Westmount, Que.	EL 4109



NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address			
Wilson, Reginald A.	Med. 2	366 Sherbrooke St. W., Montreal	MA 8419
Wilson, Richard T.	Med. 2	1355 14th Ave. W., Vancouver, B.C.	
Wilson, Roger	Med. 2	3485 McTavish St., Montreal	MA 2720
Wilson, Ross A.	Arts 2	14 Whitfield Rd., W., Somerville, Mass.	
Wilson, Stuart A.	Arch. 1	640 Prince Arthur St. W., Montreal	MA 9531
Winn, James	Ap. Sci. 1	Laguannan Uplands, Victoria, B.C.	
Winter, Etheljean	Arts 2	2268 Melrose Ave., Montreal	WA 2191
Winter, William H.	Med. 4	2168 Addington Ave., Montreal	WA 3299J
Wisely, John S.	Med. 2	4841 Marquette St., Montreal	AM 2296
Witherspoon, William M.	Med. 1	4684 Westmount Ave., Westmount, Que.	WE 0334
Witter, Howard B.	Med. 5	2019 Peel St., Montreal	MA 2704
Wolfendale, G. H.	Theol. 3	604 Fowl Bay Rd., Victoria, B.C.	
Wolff, C. E. F.	Theol. 1	3547 University St., Montreal	MA 6915
Wolstein, Edward	Med. 4	Randall Manor, Staten Island, N.Y.	
Wong, Henry	Arts 1	640 Prince Arthur St. W., Montreal	MA 9531
Wood, George W.	Arts 2	20 Dartmouth St., Rochester, N.Y.	
Wood, Kathryn P.	Arts 2	2019 Stanley St., Montreal	LA 7614
Woodhead, Robert C.	Arts 1	243 Lafayette St., Baton Rouge, La.	
Woodley, Elsie C.	Grad. Sch.	3473 University St., Montreal	MA 4902
Woods, Doris A.	Soc. Workers 2	3473 University St., Montreal	MA 4902
Woods, Harry Douglas	Grad. Sch.	17 Palace Sq., Norwood, London, S.E.	
Woodwark, Kenneth Hugh	Theol. 1	19, England	
Woolfrey, Sidney G.	Arts P.	2026 McGill College Ave., Montreal	LA 8610
Woollven, James A.	Arch. 3	124 Stewart St., Ottawa, Ont.	
Wooten, David O.	Com. 1	1090 Chenneville St., Montreal	LA 2953
Worthington, Robert L.	Med. 3	1557 St. Mark St., Apt. 9, Montreal	UP 0692
Wright, Edwin K.	Med. 5	201 Westmount Blvd., Westmount, Que.	WE 3168
Wright, Mifanny M.	Phy. Ed. 1	241 Ballantyne Ave. N., Montreal	WA 0769
Wright, Robert H.	Grad. Sch.	West, Que.	
Wykes Eric R.	Grad. Sch.	516 Grosvenor Ave., Westmount, Que.	WE 4385
Wylde, Edmund W.	Med. 5	2365 Grand Trunk St., Montreal	WI 6202
Wylie, Miriam F.	Phy. Ed. 2	766 King St., Fredericton, N.B.	
Yelin, Gabriel	Arts 4 & Med. 1	1255 Bishop St., Montreal	UP 9383
Yelin, Moses S.	Law 3	King St., Fredericton, N.B.	
York, Fred G.	Ap. Sci. 1	3506 University St., Montreal	MA 2055
Young, Donald A.	Med. 1	Ste. Rose, Que.	
Young, Donald M.	Arts 2	3506 University St., Montreal	MA 2055
Young, Eva Robinson	Grad. Sch.	Carmenville, Nfld.	
Young, Gilbert M.	Ap. Sci. 1	317 Elm Ave., Westmount, Que.	WE 0217
Young, Harold G.	Arts 4	Strathcona Hall, Montreal	LA 1567
Young, Horace C.	Ap. Sci. 1	3404 Cedar Crescent, Vancouver, B.C.	
		3478 McTavish St., Montreal	UP 2143
		1560 8th St., San Diego, Cal.	
		3556 Shuter St., Montreal	MA 8788
		Eel River Crossing, Restigouche Co., N.B.	
		5970 Monkland Ave., Montreal	WA 5905
		Summerland, B.C.	
		2047 Metcalfe St., Montreal	LA 9509
		3837 Alexandra Ave., Vancouver, B.C.	
		864 Church Avenue, Verdun, Que.	YO 9333F
		3660 Lorne Crescent, Montreal	MA 3062
		1613 46th St., S.W., Seattle, Wash.	
		1019 Sherbrooke St., Montreal	UP 7913
		Estevan, Sask.	
		3549 St. Famille St., Montreal	PL 3430
		3549 St. Famille St., Montreal	PL 3430
		3530 Durocher St., Montreal	MA 4001
		560 Driveway, Ottawa, Ont.	
		3647 University St., Montreal	MA 2806
		100 Frank St., Ottawa, Ont.	
		4390 Earncliffe Ave., Montreal	EL 6449
		533 Prince Arthur St. W., Montreal	
		6347 24th Ave., Rosemount, Que.	CL 7133
		772 Sherbrooke St. W., Montreal	LA 1567
		Maryland, Que.	
		3560 Hutchison St., Montreal	HA 4673
		156 Ellsworth Ave., Toronto, Ont.	



# DIRECTORY OF STUDENTS

729

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Younge, Eva R. .... Soc. Workers 1 .. 3429 St. Famille St., Montreal ..... PL 6807  
 Mannville, Alta.  
 Yuen, Henry B. .... Arts 2 ..... 1051 Clarke St., Montreal ..... LA 5881  
 Yuile, Charles L. .... Med. 1 ..... 3540 Ontario Ave., Montreal ..... UP 2182  
 Zahalan, Rose. .... Arts 3 ..... 1555 Laurier Ave. E., Montreal ..... AM 6084  
 Zaitlin, A. H. J. .... Law 2 ..... 6853 St. Lawrence Blvd., Montreal ..... CR 0073  
 Zimmerman, Clark B. Jr. .... Med. 4 ..... 539 Pine Ave. W., Montreal ..... MA 7818  
 Mt. Carmel, Pa.  
 Zimmerman, George. .... Arts 3 ..... 5702 Hutchison St., Montreal ..... CR 2575  
 Zion, Alfred B. .... Arts 1 ..... 705 Outremont Ave., Outremont, Que.  
 Zobel, Jerome F. .... Med. 3 ..... 772 Sherbrooke St. W., Montreal ..... LA 1567  
 352 Lake St., San Francisco, Cal.  
 Zuck, Zelda Jean ..... Grad. Sch. .... 224 St. Joseph Blvd. E., Apt. 9, Mont-  
 real ..... BE 0056  
 Zuker, Esther ..... Arts 2 ..... 4317 Esplanade Ave., Montreal ..... BE 8102J  
 Zweig, David N. .... Arts 1 ..... 4158 De Bullion St., Montreal ..... BE 9170M  
 Zwisler, Frederick F. .... Med. 3 ..... 3625 Park Ave., Montreal ..... HA 2995  
 51 Cherry Hill, Holyoke, Mass.



## REGISTRATION OF STUDENTS

SESSION 1930-31

*Faculty of Arts and Science*

	Men	Women	Total
First Year:			
B.A. ....	72	88	160
B.Sc. ....	124	16	140
Totals in First Year.....	196	104	300
Second Year:			
B.A. ....	91	95	186
B.Sc. ....	47	17	64
B.Sc., M.D. ....	2	....	2
Totals in Second Year.....	140	112	252
Third Year:			
B.A. ....	80	77	157
B.Sc. ....	23	1	24
B.A., M.D. ....	6	1	7
B.Sc., M.D. ....	7	1	8
Totals in Third Year.....	116	80	196
Fourth Year:			
B.A. ....	77	66	143
B.Sc. ....	14	11	25
B.A., M.D. ....	7	....	7
B.Sc., M.D. ....	13	....	13
B.A., D.D.S. ....	2	....	2
Totals in Fourth Year..	113	77	190
Partials.....	48	56	104
Totals in the Faculty of Arts and Science.....	613	429	1,042

*School of Commerce*

First Year.....	54	10	64
Second Year.....	66	8	74
Third Year.....	67	5	72
Fourth Year.....	40	....	40
Totals in the School of Commerce.....	227	23	250

*Faculty of Engineering*

First Year.....	111	....	111
Second Year.....	77	....	77
Third Year.....	59	....	59
Fourth Year.....	61	....	61
Totals in the Faculty of Engineering.....	308	....	308



<i>School of Architecture</i>	Men	Women	Total
First Year .....	16	....	16
Second Year .....	6	....	6
Third Year .....	10	....	10
Fourth Year .....	6	....	6
Fifth Year .....	6	....	6
Totals in the School of Architecture .....	44	..	44
<i>Faculty of Law</i>			
First Year .....	34	2	36
Second Year .....	30	1	31
Third Year .....	30	1	31
Totals in the Faculty of Law .....	94	4	98
<i>Faculty of Medicine</i>			
First Year .....	103	2	105
Second Year .....	78	2	80
Third Year .....	84	5	89
Fourth Year .....	97	1	98
Fifth Year .....	96	3	99
Totals in the Faculty of Medicine .....	458	13	471
Students for the Diploma of Public Health....	2	....	2
<i>Faculty of Dentistry</i>			
First Year .....	8	....	8
Second Year .....	3	....	3
Third Year .....	14	1	15
Fourth Year .....	8	....	8
Totals in the Faculty of Dentistry .....	33	1	34
<i>Faculty of Graduate Studies and Research</i>	182	57	239
<i>School of Physical Education</i>			
First Year .....	....	25	25
Second Year .....	....	18	18
Total in the School of Physical Education ....	....	43	43
<i>School for Graduate Nurses</i>	....	37	37
<i>School for Social Workers</i>			
First Year .....	1	16	17
Second Year .....	....	13	13
Totals in the School for Social Workers .....	1	29	30
<i>Library School</i>	3	11	14



<i>Department of Pharmacy</i>	Men	Women	Total
Second Year .....	3	....	3
Third Year .....	4	....	4
Total in the Department of Pharmacy .....	7	....	7
<i>Faculty of Music</i>	38	146	184
<i>School of Agriculture</i>			
B.S.A. Course .....	67	1	68
Diploma Course .....	73	....	73
Totals in the School of Agriculture .....	140	1	141
<i>School of Household Science</i>			
B.H.S. Course .....	....	27	27
Institution Administration .....	....	28	28
Homemaker Course .....	....	11	11
Short Courses .....	....	11	11
Total in the School of Household Science .....	....	77	77
Totals .....	2,150	871	3,021
Less registered in more than one Faculty .....	....	13	....
Total Registration .....	2,150	858	3,008







[illegible]

FORM 211A: L.J.D.



FEB 7 '45



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